

TOWN OF ANDOVER, MASS.

1899

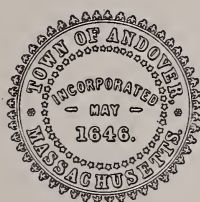
ANNUAL REPORT OF
TOWN OFFICERS, Including
Reports of the WATER AND
SEWER COMMISSIONERS. ❧



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THE
ANNUAL REPORT
OF THE
Receipts and Expenditures
OF THE
TOWN OF ANDOVER

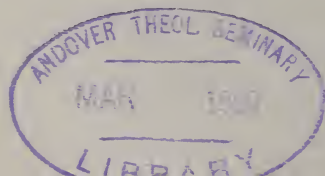
For the Financial Year Ending January 12, 1899



ANDOVER, MASS.
THE ANDOVER PRESS
1899

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TOWN OFFICERS, 1898.

Selectmen, Assessors and Overseers of Poor.

WILLIAM G. GOLDSMITH,	Term expires March, 1899
SAMUEL H. BOUTWELL,	" " " 1900
JOHN S. STARK, Secretary,	" " " 1899

Town Clerk and Tax Collector.

ABRAHAM MARLAND.

Town Treasurer.

GEORGE A. PARKER.

School Committee.

J. NEWTON COLE, Chairman,	Term expires 1900
MRS. LIZZIE A. WILSON,	" " 1901
MRS. ELLA S. MORRILL,	" " 1901
JOHN L. BREWSTER,	" " 1901
GEORGE D. PETTEE,	" " 1900
WILLIAM SHAW,	" " 1900
JOHN ALDEN,	" " 1899
JOHN N. COLE,	" " 1899
WILLIAM ODLIN,	" " 1899

Superintendent of Schools.

G. E. JOHNSON.

Water Commissioners.

JOHN H. FLINT, Chairman,	Term expires March, 1899
FELIX G. HAYNES, Secretary,	" " " 1900
JAMES P. BUTTERFIELD,	" " " 1901

Waterworks Superintendent.

JOHN E. SMITH.

Engineers of Fire Department.

LEWIS T. HARDY, Chief,	GEORGE D. LAWSON, Clerk
ANDREW McTERNEN,	LOUIS A. DANE,
ALLEN SIMPSON.	

Park Commissioners.

ALBERT POOR, Chairman,	Term expires March, 1900
FRANK S. MILLS,	“ “ “ 1901
CHARLES L. CARTER,	“ “ “ 1899

Highway Surveyor.

GEORGE W. CHANDLER,	Term expires 1899
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Board of Health.

CHARLES E. ABBOTT, M. D., Chairman,	Term expires 1901
J. A. LEITCH, M. D.,	“ “ 1900
HOWELL F. WILSON,	“ “ 1899

Sewer Commissioners.

WILLIAM S. JENKINS, Chairman,	Term expires 1900
JOHN L. SMITH,	“ “ 1899
JOHN E. SMITH,	“ “ 1901

Chief of Police.

GEORGE W. MEARS. Appointed.

Constables.

GEO. W. MEARS, WILLIAM L. FRYE,
ELMER H. SHATTUCK.

Trustees of Memorial Hall.

GEORGE W. FOSTER,	Term expires 1905
FREDERIC S. BOUTWELL,	“ “ 1899
C. C. CARPENTER,	“ “ 1900
JOSEPH W. SMITH,	“ “ 1901
FRANCIS H. JOHNSON,	“ “ 1902
JOSEPH A. SMART,	“ “ 1903
E. KENDALL JENKINS,	“ “ 1904

Trustees of Punchard Free School.—Terms expire 1901.

GEORGE H. POOR, SAMUEL H. BOUTWELL
HORACE H. TYER, MYRON E. GUTTERSON,
GEORGE A. PARKER.

Auditors.

CHARLES B. JENKINS, GEORGE A. HIGGINS,
W. BYRON MORSE.

TOWN MEETINGS.

Annual Town Meeting, March 7, 1898.

Warrant.

ESSEX SS.: To either of the Constables of the Town of
Andover. GREETING:

In the name of the Commonwealth of Massachusetts you are hereby directed to notify and warn the inhabitants of the Town of Andover, qualified to vote in town affairs, to meet and assemble in the Town House, in said Andover, on Monday, the seventh day of March, 1898, at nine o'clock, A. M., to act on the following articles, namely:

Article 1st. — To choose a Moderator to preside at said meeting.

Article 2nd. — To choose Town Clerk, Treasurer, Collector of Taxes, one member of the Board of Selectmen, Assessors and Overseers of the Poor for one year or three years as the meeting may determine, and one member for one year to fill vacancy, one member of the Board of Health for three years, and one member for two years to fill vacancy, three members of the School Committee for three years, one Water Commissioner for three years, one Trustee of the Memorial Hall for seven years, one Sewer Commissioner for three years, Super-

intendent of Streets, five Trustees of Punchard School for three years, one or more Auditors of Accounts, Constables, Fence Viewers, Field Drivers, Surveyors of Lumber, a Pound Keeper, Fire Wards and any other officers the town may determine to choose.

Article 3d. — To take action on the following question :
 “ Shall Licenses be granted for the sale of Intoxicating Liquors in this town ? ”

Article 4th. — To determine what sums of money shall be appropriated for Schools, School-houses, School Books and Supplies, Highways and Bridges, Sidewalks, Removing Snow, Horses and Drivers, Town Officers, Town House, Hay Scales, Fire Department, Insurance, Street Lighting, Printing and Stationary, Spring Grove Cemetery, Memorial Day, State and Military Aid, Waterworks, Interest on Bonds, Funds and Notes, State and County Taxes, Abatement of Taxes, Almshouse Expenses, Relief out of Almshouse, Repairs on Almshouse and other town charges and expenses.

Article 5th. — To see if the Town will appropriate a sum of money for a Steam Fire Engine on petition of the Engineers.

Article 6th. — To see if the Town will appropriate a sum of money for an addition to the present Engine House No. 1, for a stable, on petition of the Engineers.

Article 7th. — To see if the Town will appropriate a sum of money to paint and repair Engine House at Ballard Vale, on petition of Engineers.

Article 8th. — To see if the Town will accept Chapter 386, Acts of 1895, as amended by Chapter 139, Acts of 1897, entitled an Act to authorize the Town of Andover to establish a system of Sewerage.

Article 9th. — To see if the Town will accept that portion of the system of sewers shown on plan of McClintock and Woodfall, dated January, 1894, lying on the east side of the Shawsheen River, together with the outlet to the Merrimac River, as a sewerage system and authorize the construction thereof.

Article 10th. — To see if the Town will authorize the issue of Eighty Thousand Dollars of Bonds for Sewer construction, on recommendation of Sewer Commissioners.

Article 11th. — To see if the Town will appropriate a sum of money to extend the concrete walk around the southerly end of Crescent Park, on petition of the Village Improvement Society.

Article 12th. — To see if the Town vote to and will revoke its acceptance of the laws providing for the election of Selectmen, Assessors and Overseers of the Poor, for terms of three years, on petition of George H. Poor and nineteen others.

Article 13th. — To see whether the Town will appropriate One Thousand Dollars to purchase of John H. Flint the present temporary entrance to Carmel Woods, and a new entrance from Walnut Avenue, as recommended by the Park Commissioners.

Article 14th. — To see if the Town will appropriate Twelve Hundred Dollars for general use of the Park Commissioners for the ensuing year.

Article 15th. — To see whether the Town will authorize the Park Commissioners to sell such wood as may be cut in Carmel Woods, and apply the proceeds in extension of work therein.

Article 16th. — To see whether the Town will adopt Chapter 190 of the Acts of 1896, relating to Tree Wardens, or Chapter 254 of the Acts of 1897, relating to a Forester to have charge of the trees in the highways, on petition Village Improvement Society.

Article 17th. — To see if the Town will authorize the issue of Five Thousand Dollars of Water Bonds for construction purposes, on petition of the Water Commissioners.

Article 18th. — To see if the Town will appropriate a sum of money for care of the Public Dump, on petition of Village Improvement Society.

Article 19th. — To act on the reports of Town Officers.

Article 20th. — To see if the Town will accept the list of names of Jurors prepared by the Selectmen.

Article 21st. — To fix the pay of the Firemen for ensuing year.

Article 22d. — To determine the method of collecting the taxes the ensuing year.

Article 23d. — To determine the disposition of unexpended appropriations.

Article 24th. — To hear the final report of the Committee on the Celebration of the 250th Anniversary of the Settlement of the Town, and appropriate a sum of money as recommended therein.

Article 25th. — To authorize the Treasurer to hire money for the use of the Town in anticipation of Taxes, upon the approval of the Selectmen.

Article 26th. — To determine the amount of money to be raised by taxation the ensuing year.

Article 27th. — To transact any other business that may legally come before the meeting.

Given under our hands at Andover, this twenty-third day of February, in the year one thousand eight hundred and ninety-eight.

ARTHUR BLISS,	} <i>Selectmen</i>
SAMUEL H. BOUTWELL,	
JOHN S. STARK,	
	<i>of</i>
	<i>Andover.</i>

Officer's Return.

ANDOVER, March 7, 1898.

ESSEX, SS :

Pursuant to the foregoing Warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place, and for the purposes stated in said Warrant by posting a true and attested copy of the same on the Town House, on each School house, and no less than five other public places, where bills and notices are usually posted, said Warrants have been posted two Sundays.

GEO. W. MEARS,

Constable of Andover.

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs, convened at the Town House in said Andover on the 7th day of March, 1898, at nine o'clock in the forenoon, agreeably to the requirements of the foregoing Warrant, and after reading part of the same by the Clerk it was

Voted, to dispense with the further reading of the Warrant.

The Officers Return was read.

Took up Article 1.

Chose George H. Poor, Moderator, by ballot, he receiving the one vote cast.

Took up Article 27.

Voted, to accept the resignation of Arthur Bliss as one of the Selectmen.

Voted, to accept the resignation of Wm. G. Goldsmith as Park Commissioner.

Voted, to take up Article 12.

Voted, to rescind the vote to elect Seletmen for three years.

Voted, to elect three Auditors.

Voted, to elect three Constables.

Voted, to take up Article 2 and 3 together.

At five minutes past nine the polls were opened and the meeting proceeded to ballot for Town Officers, and to vote upon the Liquor License question.

The Standard ballot box failed to work properly and was laid aside, an open box being substituted therefor in taking the vote on the Liquor License question.

Voted, at 11.30 A. M., that the polls be closed at 2 o'clock P. M., and they were closed at that hour.

The Moderator appointed Thomas F. Pratt, John W. Bell, and Arthur T. Boutwell to sort and count ballots for Town Officers and Barnett Rogers to count the Liquor License votes, and they were all duly sworn by him to the faithful performance of their duty.

The whole number of votes cast was 767

Necessary for a choice where there were two or more
candidates for the same office, 384

FOR TOWN CLERK AND COLLECTOR OF TAXES :

Abraham Marland had 764

FOR TOWN TREASURER :

George A. Parker had 767

FOR SELECTMAN, ASSESSOR, AND OVERSEER OF POOR.

John S. Stark had 419

Wm. G. Goldsmith had 754

Charles Greene had 344

FOR SCHOOL COMMITTEE,—3 years :

Mrs. Lizzie A. Wilson had 767

Mrs. Ella S. Morrill had 767

Thomas David had 362

John L. Brewster had 403

FOR WATER COMMISSIONER,—3 years :		
	Walter H. Coleman had	373
	James P. Butterfield had	390
FOR HIGHWAY SURVEYOR :		
	George W. Chandler had	767
FOR BOARD OF HEALTH,—3 years :		
	Charles E. Abbott had	764
	John A. Leitch had	767
	James F. Richards had	1
FOR SEWER COMMISSIONER,—3 years :		
	John E. Smith had	766
FOR PARK COMMISSIONER,—3 years :		
	Frank S. Mills had	766
FOR CONSTABLES :		
	George W. Mears had	764
	William L. Frye had	766
	Elmer H. Shattuck had	761
	Walter H. Coleman had	1
FOR TRUSTEE OF MEMORIAL HALL,—7 years :		
	George W. Foster had	763
FOR AUDITORS OF ACCOUNTS :		
	Charles B. Jenkins had	610
	George A. Higgins had	608
	W. Byron Morse had	766
FOR TRUSTEES OF PUNCHARD FREE SCHOOL,—3 years :		
	George H. Poor had	765
	Horace H. Tyler had	765
	Samuel H. Boutwell had	767
	Myron E. Gutterson had	767
	George A. Parker had	767

FOR FENCE VIEWERS :

George Buchan had	368
Michael T. Welch had	767
Charles G. Hussey had	767
William H. Carter had	399

All the foregoing officers elected were chosen by ballot, the check list being used.

And the Moderator declared —

Abraham Marland elected Town Clerk and Collector of Taxes.

George A. Parker elected Town Treasurer.

John S. Stark elected Selectman, Assessor and Overseer of the Poor for one year.

William G. Goldsmith elected Selectman, Assessor and Overseer of the Poor for one year to fill out the unexpired term of Arthur Bliss.

Mrs. Lizzie A. Wilson, Mrs. Ella S. Morrill, John L. Brewster elected School Committee for three years.

James P. Butterfield elected Water Commissioner for three years.

George W. Chandler elected Highway Surveyor.

Charles E. Abbott elected Board of Health for three years.

John A. Leitch elected Board of Health for two years.

John E. Smith elected Sewer Commissioner for three years.

Frank S. Mills elected Park Commissioner for three years.

George W. Mears, William L. Frye, Elmer H. Shattuck, elected Constables.

George W. Foster elected Trustee of Memorial Hall for seven years.

Charles B. Jenkins, George A. Higgins, W. Byron Morse, elected Auditors of Accounts.

George H. Poor, Horace H. Tyer, Samuel H. Boutwell, Myron E. Gutterson and George A. Parker elected Trustees of Punchard Free School for three years.

Michael T. Welch, William H. Carter, and Charles G. Hussey, elected Fence Viewers.

The result of the vote on the Liquor License question was declared by the Moderator to be as follows:

“ Yes,” 111. “ No,” 466. Total, 577.

Voted, To proceed to vote for Park Commissioner in place of Wm. G. Goldsmith, resigned.

Whole number of votes cast	8
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Charles L. Carter had six votes and was elected to fill Wm. G. Goldsmith's unexpired term of one year.

Chose Field Drivers: Horace S. Neal, J. Warren Mooar,
George W. Mears, Herbert F. Chase, Newton Jaquith, jr.

Chose Surveyors of Lumber : Harry P. Abbott, Charles G. Hussey, Charles H. Marland, William H. Carter, Henry Gray, Frank E. Gleason, Samuel H. Bailey, John B. Jenkins, Herbert A. Moody, Edward S. Hardy, Albert A. Hardy.

Chose as Pound Keeper: George L. Burnham, and

Voted, That the town barn and barn yard be the pound.

Chose Trustee of Cornell Fund for three years: Charles Greene.

Voted, That the Town Treasurer receive four hundred dollars salary, and that the town pay the necessary sum to Security Company to become bondsman.

Voted, That forty-one hundred and fifty dollars be appropriated for street lighting for the current year, that a committee of five be appointed by the Chair to make contract and rearrange lights, contract to be made for not over three years.

Took up Article 5.

To see if the town will appropriate a sum of money for a Steam Fire Engine.

This article was not carried.

Took up Article 6.

To see if the town will appropriate a sum of money for an addition to Engine House No. 1 for a stable.

Voted, To indefinitely postpone this article.

Took up Article 7.

Voted, To appropriate five hundred dollars to paint and repair Engine House at Ballardvale.

Took up Article 8.

Voted, To accept Chapter 386, Acts of 1895, as amended by Chapter 139, Acts of 1897, entitled an act to authorize the Town of Andover to establish a system of sewerage.

The vote stood : Yes, 149 ; no, 23.

Took up Article 9.

Voted, To accept that portion of the System of Sewers shown on plan of McClintock and Woodfall, dated January, 1894, lying on the east side of the Shawsheen River together with the outlet to the Merrimack River as a Sewerage System and authorize the construction thereof.

Took up Article 10.

Voted, That the Treasurer be and he is hereby authorized to issue the bonds of the Town to be designated on their face as the Andover Sewer Loan, to the amount of eighty (80) thousand dollars, the proceeds to be used for the purpose of constructing a system of sewers for the Town as authorized by Chap. 386, Acts of 1895, and Chap. 139, Acts of 1897.

The bonds hereby authorized shall be eighty (80) in number and shall be of the denomination of one thousand (1000) dollars each. They shall be numbered from one (1) to eighty (80), both numbers inclusive, and they shall bear date of June 1st, 1898, and shall mature and be paid numbers one (1) to ten

(10), both numbers inclusive, ten thousand (10,000) dollars, June 1st, 1903 ; numbers eleven (11) to thirty (30). both numbers inclusive, twenty thousand (20,000) dollars, June 1st, 1908 ; numbers thirty-one (31) to (50), both numbers inclusive, twenty thousand dollars (20,000), June, 1913 ; numbers fifty-one (51) to eighty (80), both numbers inclusive, thirty thousand (30,000) dollars, June 1st, 1928. They shall bear interest at the rate of four (4) per centum per annum and the interest shall be payable semi-annually on the first day of June and December of each year. They shall have coupons attached to them providing for the payment of said interest at the times mentioned. The principal and interest of said bonds shall be payable at some convenient bank or office in the City of Boston, Mass. Said bonds shall be signed by the Town Treasurer and countersigned by the Sewer Commissioners as required by law and shall be sold by the Treasurer to the highest bidder therefor in proposals to be solicited by him from bankers and others.

For the purpose of paying the principle of said bonds at their maturity, a sinking fund is hereby established in accordance with the provisions of law in this behalf, and the Treasurer is hereby authorized and required to pay into said sinking fund whatever premium may be received from the sale of said bonds in excess of their face value and there shall be raised by taxation and contributed annually such sums as shall be sufficient with the excess from receipts from assessments and payments, together with the accumulations thereof, to pay the principle of said bonds at their maturity, but said sinking fund shall remain inviolate and pledged to the payment of said bonds and not to be used for any other purpose.

The vote stood, Yes, 161 ; no, 23.

Voted, That the town pay one-fourth the expense of constructing the sewer and that the abutters pay three-fourths thereof.

Took up Article 11.

Voted, That two hundred dollars be appropriated to extend the concrete walk around the southerly end of Crescent Park.

Article 12 has already been voted upon.

Took up Article 13.

Moved, That the town appropriate one thousand dollars to purchase of John H. Flint the present temporary entrance to Carmel Woods, and a new entrance from Walnut Avenue, as recommended by the Park Commissioners.

The motion was not carried, the vote standing, yea, 80 ; no, 99.

Took up Article 14.

Voted, To appropriate twelve hundred dollars for the general use of the Park Commissioners for the ensuing year.

Took up Article 15.

Moved, That the town authorize the Park Commissioners to sell such wood as may be cut in Carmel Woods and apply the proceeds in extension of work therein.

This motion was not carried.

Took up Article 16.

Relating to Tree Wardens, also relating to a Forester to have charge of trees in the highways.

Voted, To indefinitely postpone.

Took up Article 17.

Voted, That the Treasurer be and hereby is authorized to issue the bonds of the Town, to be designated on their face "Andover Water Loan," to the amount of five thousand dollars, in addition to the amount heretofore issued for this purpose, the proceeds to be used to pay the expense of supplying the Town with water, as authorized by law. The bonds hereby authorized to be issued shall be five in number and of the denomination of one thousand dollars each ; they shall be numbered from 196 to 200, both numbers inclusive ; they shall bear the date of June 1st, 1898, and shall mature

and be paid June 1st, 1928 ; they shall bear interest at the rate of four per centum per annum, and the interest shall be paid semi-annually on the first day of June and December in each year ; they shall have coupons attached to them providing for the payment of said interest at the times aforesaid ; the interest and principal of said bonds shall be paid at some convenient bank or office in the city of Boston, Mass. Said bonds shall be signed by the Treasurer, and countersigned by the Water Commissioners, as required by law in this behalf, and shall be issued from time to time as the proceeds may be required by the Water Commissioners. They shall be sold by the Treasurer to the highest bidder therefor in proposals to be solicited by him from bankers and others.

For the purpose of paying the principal of said bonds at their maturity, a sinking fund is hereby established, in accordance with the provisions of law in this behalf, and the Treasurer is hereby directed to pay into the sinking fund whatever premiums may be received from the sale of said bonds in excess of their face value, and there shall be raised by taxation and contributed annually to said sinking fund such sums as shall be sufficient, with the accumulations thereof, to pay the principal of said bonds at their maturity, and said sinking fund shall remain inviolate and pledged to the payment of said bonds, and shall not be used for any other purpose.

Took up Article 4.

Voted, To appropriate the following stated sums of money :

Schools,	\$21,000 00
School-houses,	2,200 00
School Books and Supplies,	1,500 00
Repairs on Highways and Bridges,	3,500 00
Macadamized Roads.	4,000 00
Sidewalks (\$1000 of which to be expended under "betterment act")	1,500 00

<i>Amount carried forward,</i>	<u>\$33,700 00</u>
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<i>Amount brought forward,</i>	\$33,700 00
Removing Snow,	3,500 00
Town Officers,	5,000 00
Town House,	1,000 00
Water-works, maintenance,	4,200 00
Sinking Fund,	875 00
Fire Department, running expenses,	2,500 00
“ “ fire alarm maintenance,	300 00
Horses and Drivers,	3,000 00
Street Lighting,	4,150 00
Printing and Stationery,	700 00
Spring Grove Cemetery (also proceeds of sale of lots),	300 00
Memorial Day,	200 00
State Aid,	1,600 00
Military Aid,	300 00
Expenses of Almshouse,	4,000 00
Relief out of Almshouse,	5,000 00
Repairs on Almshouse, (and unexpended balance of last year,)	500 00
State Tax,	5,000 00
County Tax,	5,000 00
Abatement of Taxes,	300 00
Interest on Notes, Funds, and Bonds,	9,500 00
Insurance,	200 00
Hay Scales,	50 00
Miscellaneous,	1,500 00
Ballardvale Engine House,	500 00
Concrete Walk around Crescent Park,	200 00
Public Dump (and unexpended balance from last year,)	50 00
250th Anniversary (and unexpended balance \$126.62,)	538 79
Park Commissioners,	1200 00
	<hr/>
	\$94,863 79

Took up Article 18.

Voted, To appropriate fifty dollars for care of Public Dump (\$25.00 of which will be needed for building fence.)

Took up Article 19.

Voted, To accept the report of the Town Officers.

The Chair handed in the following names as the Street Lighting Committee : Wm. G. Goldsmith, Barnett Rogers, John L. Smith, John W. Bell, Colver J. Stone.

Took up Article 20.

Voted, To erase the following names from the Jury List at their own request : Albert W. Caldwell, James F. Scott.

Voted, To erase the name of Carl Hoffman from the Jury List, he being deemed incompetent to serve.

Voted, To accept the Jury List as amended, here following :

Abbott, Allen F.	Cole, Joseph F.
Abbott, Edward F.	Daley, James E.
Abbott, Stephen E.	Daley, Patrick J.
Anderson, Frank H.	Dane, Louis A.
Anderson, James	Davey, John
Averill, George L.	Dear, Alexander
Bailey, Samuel H.	Dodson, Richard J.
Bailey, Nathan R.	Donald, Walter S.
Bailey, Frank E.	Erving, Abbott
Billington, Charles F.	Farnham, Moses L.
Blunt, Charles C.	Flint, James S.
Bodwell, Lewis F.	Foster, Frank M.
Boutwell, Edward W.	Grosvenor, James
Boutwell, Samuel H.	Hackett, William H.
Bowman, Charles	Hanson, Eugene A.
Boynton, Henry	Hardy, Fred. S.
Brown, George A.	Hardy, Albert A.
Burns, William J.	Haynes, Bancroft T.
Caffrey, Owen F.	Hayward, Henry A.
Carter, William H.	Holt, Ballard
Carpenter, Charles C.	Herrick, George W.
Chandler, Joshua H.	Jowett, William H.

Jenkins, Charles B.
 Keeland, John E.
 Kibbee, Charles H.
 Livingston, William
 Lovejoy, Stephen A.
 Lowd, Joseph H.
 McDermitt, Charles
 Mooar, J. Warren
 Moody, A. Herbert
 Moulton, Charles N.
 Mears, Nathan E.
 Neal, Horace S.
 Newman, Henry J.

O'Connell, Arthur F.
 Phelps, Frank C.
 Poor, Daniel H.
 Putnam, James M.
 Riley, Lawrence F.
 Stack, John, Jr.
 Schneider, Louis H.
 Shaw, Benjamin
 Stark, John S.
 Stott, Joshua H.
 Stott, Thomas E.
 Tuck, M. Warren
 Ward, Wilbur F.

Took up Article 2.

Voted, That the Forest Fire Wards be the same as served last year, as follows: Walter S. Donald, Joshua H. Chandler, John B. Jenkins, Edward S. Hardy.

Took up Article 21.

Voted, That firemen be paid twenty-five dollars same as last year.

Took up Article 22.

Voted, That Tax Collector be paid a salary of one thousand dollars as Town Clerk, Tax Collector, Clerk of the Board of Selectmen, and all fees collected be turned into the town treasury.

Took up Article 23.

Voted, That all unexpended appropriations be turned into the treasury, except balance in hands of Committee of Fifteen on 250th Anniversary, balance on Almshouse repairs, and balance on appropriation for Public Dump.

Took up Article 24.

Voted, To accept Report of Committee of Fifteen and adopt recommendations therein.

FOURTH ANNUAL REPORT OF COMMITTEE OF FIFTEEN.

Your Committee, appointed in March 1894 "to see what action the town would take in regard to the proper observance of the town's two hundred and fiftieth anniversary," reported progress at the town meeting, March 1895; a plan for the celebration, March, 1896; and last year reported the successful celebration on May 16, 17, 19 and 20, 1896. This last report was amended, accepted, and unanimously adopted and the Committee was continued with power to prepare and publish a book containing the proceedings of the celebration, and to make a final report in March, 1898.

The last meeting of the Committee was held on Feb. 12, 1898.

A "Book of Proceedings at the Celebration of the Two hundred and fiftieth Anniversary of the Town's Incorporation" has been printed and published, and a copy of the book has been delivered, free of cost, to the head of every family in town. If by accident or oversight, any household has failed to receive a copy of this valuable and attractive book, it is not known to the sub-committee having the matter in charge.

An edition of 1460 copies was printed; 1354 copies have been given out by your Committee; there remain on hand 106 copies. These 106 copies will become more and more valuable year by year, and should be carefully preserved by the officers of the town.

At our last report your Committee had on hand out of the original appropriation the sum of \$932.62. The sum of \$6.00 has been paid for the use of scenery by the Committee on Evening Reception and Historical Tableaux, and \$800 on account of the published proceedings, leaving a balance unexpended of \$126.62.

The cost of preparing, printing, illustrating, electrotyping, binding and distributing the Book of Proceedings has been \$1470.11. In making this their final report, your Committee recommend:—

1. That the copies of the Book of Proceedings, now on hand, be placed in the custody of the Town Clerk, to be used, at the discretion of the Selectmen, for sale, for exchange with other towns, or, in special cases, as presentation copies to be given to institutions and individuals with the compliments of the town.

2. That the electrotype plates of the Book be placed in the custody of the Town Clerk.

3. That an appropriation of \$538.79, and a re-appropriation of the unexpended balance of \$126.62 be made by the town, to meet the balance of the expense of the Book of Proceedings.

4. That your Committee be discharged.

Respectfully submitted,

For the Committee,

CECIL F. P. BANCROFT,

ANDOVER, MASS., MARCH 5, 1898.

Chairman.

Took up Article 25.

Voted, That the Treasurer be authorized to hire money for the use of the town in anticipation of taxes, upon the approval of the Selectmen.

Took up Article 26.

Voted, That \$77,500 be raised by taxation the ensuing year.

Took up Article 27.

Voted, That the Town Report be printed and ready for distribution ten days at least before the annual town meeting.

Voted, That the meeting be dissolved.

The meeting was dissolved at five o'clock, P. M.

The foregoing is a true copy of the Warrant and the Officers Return thereon, also a true record of the doings of the meeting.

Attest:

ABRAHAM MARLAND,

Town Clerk.

Special Town Meeting, September 26, 1898.

Warrant.

ESSEX, SS: To either of the Constables of the Town of
Andover. GREETING :

In the name of the Commonwealth of Massachusetts you are hereby directed to notify the inhabitants of the Town of Andover, qualified to vote in town affairs to meet and assemble in the Town House in said Andover, on Monday the twenty-sixth day of September, 1898, at half-past seven o'clock P.M., to act on the following articles, namely :

Article 1st.—To choose a Moderator to preside at said meeting.

Article 2nd.—To hear the report of the Committee on Street Lighting and act thereon.

Article 3rd.—To see if the Town will petition the General Court for authority to unite under one Board of Commissioners all the powers and authority vested in the Water Commissioners of Andover under chapter 439, Acts of 1887, and amendments thereto, and in the Board of Sewer Commissioners under Chapter 386, Acts of 1895, and amendments thereto.

Article 4th.—To see if the Town will vote that the proceeds of assessments for street watering may be added to the Highway Appropriation.

Hereof fail not, and make due return of this Warrant with your doings thereon, to the Town Clerk at the time and place of meeting.

Given under our hands, at Andover, this fifteenth day of September, in the year one thousand eight hundred and ninety-eight.

WM. G. GOLDSMITH,	}	<i>Selectmen of Andover.</i>
SAM'L H. BOUTWELL,		
JOHN S. STARK,		

ANDOVER, SEPT. 26, 1898.

ESSEX SS. Pursuant to the foregoing Warrant, I, the subscriber one of the Constables of the Town of Andover have notified the inhabitants of said town to meet at the time and place, and for the purposes stated in said Warrant, by posting a true and attested copy of the same on the Town House, on each school house, and in not less than five other public places, where bills and notices are usually posted, said Warrants have been posted two Sundays.

GEO. W. MEARS,

Constable of Andover.

At a special meeting of the inhabitants of the Town of Andover qualified to vote in town affairs, convened at the Town House in said Andover, agreeably to the requirements of the foregoing Warrant, and after the reading of the Warrant and officer's return by the Clerk, then took up

Article 1st.—Chose George H. Poor moderator by nomination from the floor, it having been voted so to do.

Article 2nd.—The Report of the Electric Light Committee was read by Colver J. Stone, Esq., and accepted.

REPORT OF STREET LIGHTING COMMITTEE.

To the Citizens of Andover:

At the annual town meeting of 1898, it was voted that \$4150 be appropriated for street lighting for the current year, that a committee of five be appointed by the Chair to make contract and re-arrange lights, contract to be made for not over three years.

Your Committee appointed in accordance with the above vote, respectfully report that they held several meetings, at three of which representatives from the Andover Electric Company were present. Having foreseen that in order satisfactorily to light the streets it would be necessary to substitute incandescent for arc lamps in certain places, the first question the committee discussed was: how many incandescent lamps should be deemed the equivalent of one arc, taking as a basis the cost per year of each arc and incandescent lamp.

At a special town meeting held Sept. 21st, 1891, the Company offered to furnish 31 arc lamps of 1200 candle power each, and 56 incandescent lamps of 25 candle power each to burn every dark night, until 12.30 A.M. for \$3500, and additional lamps at the rate of \$70 per year for each arc and \$16 per year for each incandescent lamp. At the figures given for furnishing the additional lights, four and one-half incandescent lamps would be the equivalent of one arc. Under the existing contract the Company agreed to furnish additional lamps at an expense to the town of \$75 per year for each arc lamp of nominal 1200 candle power capacity, and \$19 per year for each incandescent lamp of 25 candle power, the said lamps to be burned until 12 o'clock. At these figures four incandescent lamps would be the equivalent of one arc. The Company on the other hand insisted that three incandescent lamps should be deemed the equivalent of one arc and attempted to substantiate its contention by submitting a proposition the material parts of which were, that the Company would furnish lamps at an expense to the town of \$71.50 per year for each arc lamp and \$23.50 per year for each incandescent lamp. Under this proposition the price of each incandescent lamp had jumped suddenly from \$19 to \$23.50 per year, while that of the arc lamp had been reduced \$4. In other words, having found that the figures under the old contract would not support its contention the Company immediately proceeded to manufacture figures which should support that contention. The Company knew, moreover, that under a re-arrangement of the lights the Committee would require a greater number of incandescent and a less number of arc lights, hence an additional reason for the reduction in the price of the arc light to \$71.50 and the increase in that of the incandescent to \$23.50.

By careful investigation the Committee found that the opinion of the most competent judges as well as that of the Board of Gas Commissioners, was that four incandescent lamps were the equivalent of one arc. Not until the Company had compelled the Committee to furnish absolutely conclusive evidence on this point, which evidence was peculiarly within the knowledge of the Company, did it finally agree that four incandescent lamps should be deemed the equivalent of one arc, and that this should be one of the provisions in the contract between the town and the Company. This circumstance is mentioned simply to show the nature of the difficulties which met the Committee at every step of the negotiations. Meanwhile the Committee had been carefully investigating the prices which different towns were paying for street lighting, under conditions substantially similar to those existing in Andover, and they found with but few exceptions, that Andover was paying the highest price of any town in the Commonwealth. North Andover, for instance, pays but \$65 per year for each 1200 candle power arc lamp which burns more hours per day and more days per month, than those of the town of Andover. In their investigation as to prices the Committee were confined almost wholly to the Gas Commissioners Report, on which they believed they had a right to depend, and if the Gas Commissioners Report be of any value whatever, they did have this right. At the next meeting the Committee informed the Company that in their opinion the town was paying too much for its lighting, and gave the reasons on which they based their opinion. The Company replied that the price other towns were paying for their street lighting was immaterial, that the Andover Electric Company would furnish lamps under the old system of lighting, that is to say, 64 incandescent lamps of 25 candle power each, and 30 arc lamps of nominal 1200 candle power each, to burn every dark night until 12.30 A. M. for \$4150 and not one cent less. "This is flat-footed, gentlemen, and unless the town makes a contract at these figures, there will be no contract." In other words, the Andover Electric Company was going to draw its own contract compel the town to pay \$81.36 per year for each arc lamp and \$20.34 per year for each incandescent lamp, and the only latitude to be allowed the Committee was as to the order in which each member should sign his name to said contract. Under the previous proposition the Company had fixed the price of the arc lamps at

\$71.50. Your Committee gave the Superintendent of the Company the credit of knowing how to figure, and they had the right to infer when he fixed the price of the arc lamp at \$71.50, that either he was not going to furnish it at less than cost, or that his price was named simply to entrap the Committee. If the Superintendent of the Electric Company meant that he could furnish arc lamps at \$71.50 each, per year at a profit, then the advance in price from \$71.50 to \$81.36 was purely arbitrary, and therefore could not be entertained by your Committee for a moment. At the final meeting between the Committee and the Company, the Committee submitted a contract, the material provisions of which were as follows: Section Four, In consideration of which said town of Andover agrees to pay to said Electric Company for said lights, 30 arc and 84 incandescent, to be lighted from dark until 12.30 A.M. every dark night, the sum of \$75 per year for each arc light, and the sum of \$20 per year for each incandescent light.

Section Eight, That any changes from arc to incandescent lamps will be made by the said Electric Company, in the present system of lighting to the extent of the equivalent of 10 arc lamps on the basis of 4 incandescent lamps for one arc lamp, and the said Electric Company further agrees that it will raise or lower any or all of the incandescent lamps on the poles where they are now located, as the town of Andover, by its Committee, may desire. Before submitting this proposition to the Company, one member of your Committee asked the Chairman of the Board of Gas Commissioners, point blank, if he did not consider \$75 per year for each arc light and \$20 per year for each incandescent light a fair and just offer, he replied that he thought the town would have no difficulty in making a contract with the Company, if such an offer were made. The Committee accordingly submitted this offer to the Company, and it was apparently accepted but just as the meeting was about to adjourn the Superintendent of the Company said "Of course your Committee understand that the town will be lighted until 12 o'clock at these figures." Your Committee on the contrary understood nothing of the kind, and the Company knew it, because in the proposition submitted by the Committee it was expressly provided

that the lights should burn from dark till 12.30 A. M. It will be seen at once, that under this proposition the Committee offered \$3.50 more per arc light than the Company had demanded under its first proposition, which was, to furnish arc lights at \$71.50 each. From the beginning it was perfectly clear to your Committee that the Electric Company had determined upon having the whole appropriation of \$4150. Under the existing contract the Company furnished 31 arc and 74 incandescent lamps to burn until 12 o'clock for \$3700, but the town paid a further sum during the last year for the purpose of lighting until 12.30 A. M. and for additional lights, making the total amount about \$4000. For substantially the same service the town is now asked to pay \$4150 for which the Company can give no satisfactory reason. Your Committee believe that the town made the present appropriation for the sole purpose of obtaining better lighting, they therefore refused to pay the Electric Company more money without receiving in return therefor additional lights. Having exhausted every means in their power in attempting to make a satisfactory contract with the Company, and having failed so to do, the Committee finally appealed to the Board of Gas and Electric Light Commissioners for a *reduction* in the price of lights. A hearing was given in the Lower Town Hall, April 22nd, 1898, at which hearing each side presented its case. The Commissioners found neither in favor of the proposition submitted by the Electric Company, nor of that submitted by the Committee, but fixed the price at \$83.50 per year for each arc and \$20.85 per year for each incandescent lamp, basing their finding on the principle that the investor ought to receive a fair return on his investment, and that therefore the Town of Andover ought to pay such a price for its street lighting as would yield the Electric Company a fair return on its investment. Your Committee believe this principle to be unsound and that it never operates except in a case in which A holds the franchise and B is compelled to pay what A asks. Your Committee refused to be dictated to either by the Andover Electric Company or by the Board of Gas and Electric Light Commissioners, accordingly after having made a final offer to continue under the old contract until the next annual Town Meeting,

which offer the Company rejected, your Committee determined to call a Special Town Meeting and refer the whole matter to the town.

Respectfully submitted,

JOHN L. SMITH,
WM. G. GOLDSMITH,
BARNETT ROGERS,
JOHN W. BELL,
COLVER J. STONE,

Street Lighting Committee.

Voted, That the matter of Street Lighting be re-committed to the Street Lighting Committee, and that they be instructed to light the town in some way, but not to be confined to Electric Light and that the amount paid does not exceed \$4150.00.

Took up Article 3rd, and

Voted, That the Town petition the General Court for authority to unite under one Board of Commissioners all the powers and authority vested in the Water Commissioners of Andover under Chapter 439, Acts of 1887, and amendments thereto, and in the Board of Sewer Commissioners under Chapter 386, Acts of 1895, and amendments thereto.

Took up Article 4th, and

Voted, That all money collected for street watering be turned over to the Street Department.

The meeting dissolved at 9 o'clock P.M.

The foregoing is a true copy of the Warrant and the Officer's Return thereon, also a true record of the doings of the meeting.

Attest :

ABRAHAM MARLAND,

Town Clerk.

SELECTMEN'S ACCOUNT.

SCHOOLS.

Appropriation, March 7th, 1898,	\$21,000 00
George E. Johnson, Superintendent,	\$1716 61
Ella L. Comstock, teaching,	508 75
Annie E. Chase, teaching,	755 00
Elizabeth H. Demarest, teaching,	1034 22
Edith E. McLawlin, teaching,	642 10
Laura F. Farnum, teaching,	326 25
Florence I. Abbott, teaching,	467 18
Carolyn A. Deane, teaching,	463 62
Jennie S. Abbott, teaching,	468 95
Lucy A. Roach, teaching,	498 75
Julia A. Carleton, teaching,	456 25
Rubina S. Copeland, teaching,	318 75
Annie M. Downes, teaching,	492 50
Clara A. Putnam, teaching,	630 00
Jessie B. F. Greene, teaching,	468 95
Caroline S. Daniels,	150 30
Julia McCarthy, teaching,	341 25
Evelyn P. Reed, teaching,	377 06
May Agnes Dacey, teaching,	321 05
Margaret C. Donovan, teaching,	551 25
Jennie Birnie, teaching,	472 50
M. D. McLeod, teaching,	338 16
Susan N. Molther, teaching,	325 00
Bertha R. Haselton, teaching,	234 00
Mabel F. Knowles, teaching,	222 30
Margaret M. Phillips, teaching,	222 30
<i>Amount carried forward,</i>	<hr/> \$12,803 05

Appropriation, March 7th,	\$21,000 00
<i>Amount brought forward,</i>	\$12,803 05
Annie O. S. Clemons, teaching,	498 75
Helen W. Battles, teaching,	521 05
Grace A. Puffer, teaching,	308 75
Lilla A. Abbott, teaching,	498 75
Gertrude A. Burt, teaching,	430 00
Eva A. Hardy, teaching,	376 58
Mary Brown,	46 87
Marie A. Bunker, teaching,	123 00
Mary Kenney, teaching,	211 20
Edith Donald, teaching,	12 82
Addie M. Carney, teaching,	7 97
Frances M. B. Willgoose, teaching,	180 00
Katherine Robinson, teaching,	200 00
Adele H. Duval, teaching,	180 00
Frances Goodwin, teaching,	159 18
Marie L. Saunders, teaching,	79 00
Florence M. Provost, teaching,	147 60
Mary E. Scott, teaching,	120 00
Sarah A. Patrick, teaching,	136 80
Alice M. Bowman, teaching,	136 80
Harriet W. Carter, teaching,	180 00
Bessie A. Holt, teaching,	2 70
G. Jackson, teaching,	3 00
J. F. Carlton, teaching,	6 30
Orrell Ashton, janitor,	238 00
Bailey & Flint, janitors,	25 00
L. W. Bodwell, janitor,	908 25
Andrew Thompson, janitor,	218 50
Mrs. Betsy Spark, janitor,	20 00
Frank McGovern, janitor,	37 00
George McIntire, janitor,	25 00
Charles A. Craig, janitor,	32 00
<i>Amount carried forward,</i>	\$18,873 92

Appropriation, March 7th,		\$21,000 00
<i>Amount brought forward,</i>	\$18873 92	
Sarah Bourdelais, janitor,	25 00	
Harry D. Flint, janitor,	25 00	
Joseph Shattuck, janitor,	75	
Charles A. Hardy, janitor,	23 25	
Patrick J. Barrett, janitor,	25 00	
Frank A. Hardy, janitor,	12 00	
George F. Baker, wood,	44 00	
James S. Flint, wood,	29 00	
Albert J. Doyle, prep. wood and janitor,	27 25	
Frank E. Gleason, coal,	1577 10	
Albert A. Hardy, wood,	3 50	
Charles L. Bailey, wood,	2 75	
William H. Tucker, wood,	13 50	
George E. Flint, wood,	3 00	
Daniel Fitzpatrick, wood,	34 50	
C. J. Way, wood,	22 50	
Harry Bourdelais, preparing wood,	4 50	
John B. Abbott, wood,	31 88	
Leon G. Flint, preparing wood,	3 00	
Wm. H. Higgins, team,	52 00	
Blois Express, moving piano,	1 50	
Louis A. Dane, supplies,	3 40	
E. J. Collins, tuning piano,	6 00	
George E. Johnson, sundries paid,	81 07	
J. Warren Mooar, truant officer,	40 00	
William H. Burnham, lecture,	13 00	
M. Steinert & Sons Co., tuning piano,	2 50	
Tuttle's Express, carting,	8 09	
Henry M. Hayward, truant officer,	10 00	
Total expenditure,	—————	\$20998 96
Balance unexpended,		<u><u>\$1 04</u></u>

SCHOOL-HOUSES.

Appropriation, March 7th, 1898,	\$2,200 00
H. McLawlin, supplies,	\$ 92 11
M. T. Walsh, repairs on furnace,	13 95
Henry P. Noyes, supplies,	98 92
H. F. Chase, supplies,	5 45
Charles A. Hardy, repairs,	4 10
Harry D. Flint, repairs,	50
Wales Brothers, pumps,	54 00
Peabody & Pike, masonry,	37 62
Geo. E. Clive, guardian, gravel,	20 50
Thomas J. O'Brien, labor,	20 00
Brainard Cummings, repairs,	53 48
E. C. Pike, supplies,	12 85
A. W. Caldwell, painting,	51 43
T. P. Harriman, iron work,	3 05
J. E. Whiting, clocks,	6 10
Frank E. Dodge, masonry,	72 77
George Saunders, repairs on furnaces,	129 79
Hardy & Cole, book case and repairs,	303 09
John Connolly, labor,	76 25
S. M. Jones, repairs,	2 40
Smith & Manning, supplies,	1 87
Arthur Bliss, supplies,	1 20
Henry Shaw, repairs,	50
M. Steinert & Sons Co., piano,	42 87
John Howell, loam,	35 50
J. L. Hammett & Co., furniture,	56 42
Martin & Wells, Fireworks Mfg. Co., flag,	8 25
F. G. Haynes & Co., supplies,	6 88
<i>Amount carried forward,</i>	\$1211 85

Appropriation, March 7th,		\$2,200 00
<i>Amount brought forward,</i>	\$1,211 85	
B. B. White, repairs,	2 70	
Joseph Gorst, labor,	2 00	
Peter D. Smith, land,	200 00	
A. Beauregard, repairs,	3 00	
T. A. Holt & Co., supplies,	8 15	
J. H. Chandler, labor,	5 67	
Holscomb & Hoke Mfg. Co., brushes,	5 50	
Byron Truell & Co., supplies,	20 00	
E. J. Rowe, repairs,	5 00	
W. F. Rutter & Co., supplies and plumbing,	66 36	
Bailey & Chase, concrete,	254 00	
Benjamin Shaw, labor,	4 00	
J. J. Joslin, labor,	10 00	
John S. Dearborn, painting,	106 00	
L. W. Bodwell, repairs,	166 90	
Fred Hanson, repairs,	3 50	
Michael O'Connor, stone and labor,	28 00	
D. Donovan & Son, painting,	54 20	
John McCarthy, labor and pipe,	23 50	
W. F. Duffee & Co., concrete,	14 00	
Charles P. Rea, labor,	5 24	
Total expenditure,	—————	\$2199 57
Balance unexpended,		<u>43</u>

SCHOOL BOOKS AND SUPPLIES.

Appropriation, March 7th, 1898,	\$1,500 00
Houghton Mifflin & Co.,	\$110 50
J. E. Whiting,	25
Public School Publishing Co.,	3 58
T. A. Holt & Co.,	15 36
J. L. Hammett & Co.,	234 47
American Book Co.,	194 46
Morse Co.,	11
Lathrop Publishing Co.,	3 00
D. C. Heath & Co.,	114 36
E. M. Perry,	13 46
Charles B. Botsford & Co.,	29 00
Boston Normal School of Gymnastics,	85
George B. Frasar,	12 00
Edward E. Babb & Co.,	106 77
George S. Perry & Co.,	9 80
Maynard, Merrill & Co.,	2 00
Ginn & Co.,	85 77
Andover Press,	70 59
Tuttle's Express,	31 17
Prang Educational Co.,	5 69
American Express Co.,	1 90
Silver, Burdett & Co.,	103 01
George A. Higgins & Co.,	5 10
Smith Premier Typewriter Co.,	105 45
Education Publishing Co.,	6 67
Lee & Shepard,	5 00
George Piddington,	50
Abraham Marland,	1 50
<hr/>	
<i>Amount carried forward,</i>	\$1,272 32

Appropriation March 7th,		\$1,500 00
<i>Amount brought forward,</i>	\$1272 32	
Lawrence Decorating Co.,	2 50	
F. J. Barnard & Co.,	182 24	
Burns & Crowley,	3 25	
Martin & Wells Fireworks Mfg. Co.,	2 50	
William Ware & Co.,	27 50	
E. L. Kellogg & Co.,	2 00	
Andover & Lawrence Express,	75	
A. Storrs & Bement Co.,	1 25	
New England Publishing Co.,	5 00	
Total expenditure,	<hr/>	\$1499 31
Balance unexpended,		<hr/> <hr/> 69

HIGHWAYS AND BRIDGES.

Appropriation March 7th, 1898,	\$3500 00
Street sprinkling,	820 00
Work on sewers,	420 00
	<hr/> \$4740 00
Hardy & Cole, stock and labor,	\$ 140 43
Patrick McMullen, labor,	164 69
J. W. Hunt, labor,	3 00
Dennis Sweeney, iron work,	1 75
B. W. Burt, labor,	30 00
W. H. Carter, gravel,	16 50
George W. Chandler, salary,	332 66
John Haggerty, labor,	351 78
Patrick W. Conway, labor,	198 05
A. H. Hill, gravel,	8 40
Anderson & Bowman, iron work,	1 15
Philip Mooney, labor,	87
H. McLawlin, supplies,	61 38
John D. Driscoll, labor,	169 34
Joseph Shepard, labor,	127 56
John Schofield, labor,	158 68
Timothy C. Sullivan, labor,	157 38
Turner H. Lord, labor,	199 55
Frank McCuskar, labor,	38 31
John Leary, labor,	36 36
William Leary, labor,	135 33
Dennis Riley, labor,	76 81
Dennis P. Driscoll, labor,	109 37
	<hr/>
<i>Amount carried forward,</i>	\$2519 35

Appropriation, March 7th,	\$4,740 00
<i>Amount brought forward,</i>	\$2,519 35
George W. Chandler, team,	221 47
Cornelius Collins, labor,	158 07
Timothy Madden, labor,	162 57
John D. Ronan, labor,	79 35
John Madden, labor,	1 56
John O'Collins, labor,	189 00
Swan Mateson, labor,	151 46
George L. Burnham, supt. labor,	267 50
William Hardney, labor,	55 41
Patrick Connelly, labor,	113 94
Thomas Lynch, labor,	87 88
Patrick Hodnadd, labor,	100 52
John Buckley, labor,	2 72
Joseph Magnett, labor,	83 23
William H. Tucker, labor,	33 00
Wm. H. Higgins, team,	1 50
J. F. Richards, professional services,	2 00
John F. Dearborn, painting,	3 75
J. H. Purr, labor,	54 25
James Bartren, labor,	48 80
John Cullin, labor,	21 00
Harry Bourdelais, labor,	28 97
Mrs. N. F. Abbott, team,	13 50
Boston & Maine R. R., freight,	8 15
Jerry Golden, labor,	47 70
Michael Boyle, labor,	22 50
Abbott Irving, labor,	6 30
Samuel Smith, repairing crusher,	10 85
Jerry Leary, labor,	127 50
R. A. Ward, labor,	18 00
Albert A. Hardy, labor,	38 50
John Maddox, labor,	27 00
<i>Amount carried forward,</i>	<hr/> \$2187 95

Appropriation and receipts, March 7th,		\$4,740,00
<i>Amount brought forward,</i>	\$2187 95	
John Crowley, labor,	36 00	
T. P. Harriman, iron work,	11 60	
John W. Henderson, labor,	6 00	
George D. Ward,	27 00	
Total expenditure,	————	\$4787 90
Overdrawn,		<u><u>\$ 47 90</u></u>

Removing Snow.

Appropriation, March 7th, 1898,	\$3,500 00
S. A. Lovejoy,	\$ 18 63
Joseph T. Lovejoy,	18 01
F. J. Williamson,	6 41
James J. Abbott,	52 02
Patrick McMullen,	27 03
E. M. Tarr,	7 00
Daniel Sullivan,	7 86
J. J. Foye,	5 25
James Hill,	8 75
George Dane,	7 96
George A. Piddington,	7 00
George E. and L. M. Davis,	17 25
J. J. Lynch,	9 03
Lewis Buxton,	6 61
George Buxton,	7 78
Elix Crocket,	8 60
Charles O'Hara,	4 47
E. H. Berry,	4 60
J. C. Hutchinson,	10 70
S. O. Cheever,	10 70
Walter Cheever,	8 39
Brenton Baker,	9 33
George F. Baker,	9 14
Edgar McIntire,	3 50
John P. Savage,	8 75
Edward W. Burt,	85 75
J. Warren Moor,	9 50
Joseph Murphy,	6 61
George Rattery,	6 50
John Colbath,	6 12
Henry McLawlin,	23 30
John B. Abbott,	72 26
<i>Amount carried forward,</i>	<hr/> \$494 81

Appropriation, March 7th,	\$3,500 00
<i>Amount brought forward,</i>	\$494 81
George P. Pillsbury,	43 75
O. W. Vennard,	3 50
Daniel P. Stiles,	2 52
William H. Tucker,	69 21
Fred Symonds,	7 77
Howard Baker,	8 75
Frank Prescott,	4 46
J. Callahan,	5 25
Benjamin Lovejoy,	3 50
William H. Tucker,	28 39
N. H. Perkins,	97 35
C. C. Blunt,	40 35
J. S. Kempton,	3 32
Peter Dugan,	6 12
Samuel Thayer,	14 00
R. C. Reed,	7 18
Patrick Murphy,	8 36
Augustus Remmes,	21 00
Daniel Murphy,	17 11
Ammon P. Richardson,	2 14
George A. Hardy,	29 16
Charles H. Flint,	5 25
Thomas E. Gray,	8 39
George N. Payne,	1 95
Thomas Fitzgerald,	3 75
C. N. L. Stone,	2 68
George L. Burnham, Supt.,	13 52
James Saunders,	2 20
Leonard Saunders,	1 00
George Saunders,	1 00
Lewis Pierce,	68
William Haggerty,	9 15
<i>Amount carried forward,</i>	<hr/> \$967 57

Appropriation, March 7th,	\$3,500 00
<i>Amount brought forward,</i>	\$967 57
W. H. Carter, and others,	228 07
William McIntosh,	1 95
Charles Ryan,	5 25
Charles Stickney,	7 00
Abbott Erving,	6 12
Geo. F. Baker,	2 32
John O'Brien,	12 25
Shattuck Bros.,	10 50
Charles A. Jameson,	24 02
F. G. Haynes & Co., shovels,	3 25
Thomas Leary,	3 50
J. F. Lynch,	62
George E. Flint,	12 63
Alexander Dear,	2 63
George Mander,	5 25
John Connelly,	8 62
H. S. Johnson,	1 55
Stephen E. Abbott,	7 00
Daniel Sweeney,	12 44
John Hart,	13 22
T. A. Holt, shovels,	1 14
Terrance McNanny,	2 00
A. R. Cunningham,	1 00
E. W. Boutwell,	8 50
Daniel J. Donovan,	21 00
Daniel Donovan,	8 75
E. G. Wright,	2 63
John Maddox,	42 75
Warren A. Bailey,	33 00
F. W. Brundrett,	12 25
Timothy C. Sullivan,	24 22
Michael Heffernan,	23 33
<i>Amount carried forward,</i>	<hr/> \$1516 33

Appropriation, March 7th,	\$3,500 00
<i>Amount brought forward,</i>	\$1516 33
Robert Boyle,	1 75
William Leary,	25 67
Dennis Riley,	34 50
Frank H. Gleason,	30 00
Harrison Hardy,	4 00
H. E. Gould & Son,	43 08
Charles H. Newton,	2 85
Albert A. Hardy,	13 20
Lewis Belisle,	8 56
Thomas P. Harriman, iron work,	2 00
George H. Worcester,	2 28
George W. Harnden,	15 75
B. F. Smith,	17 29
Arthur S. Flint,	3 94
George E. Flint,	4 38
Leon G. Flint,	3 94
John F. Willey,	4 46
C. Washburn,	11 25
John W. Nuckley,	7 62
William Titus,	5 44
Fred Harrington,	5 93
Leonard Morse,	5 05
William Hutchinson,	75
Green & Woodlin,	4 26
James Fountain,	2 80
Joseph Levalley,	2 80
John Colbath,	4 47
George L. Bursley,	1 26
Elwin Teague,	2 90
William Wheatley,	4 47
Michael Cullin,	3 50
Burns Nickerson,	1 75
<i>Amount carried forward,</i>	<hr/> \$1798 23

Appropriation, March 7th,	\$3,500 00
<i>Amount carried forward,</i>	\$1798 23
Philip Caffrey,	3 50
Virley Stevenson,	1 75
John Welsh,	3 50
William O'Donnell,	3 50
John Clinton,	1 75
Henry Riley,	3 50
Edward Newcomb,	4 23
George Riley,	3 50
Charles Ryan,	1 36
Steve Cortell,	1 55
William Reel,	3 58
Turner H. Lord,	5 25
Cornelius Sullivan,	1 56
Thomas Dudley,	1 56
James Sullivan,	1 56
William McKenzie,	6 81
Cornelius Collins,	16 91
Patrick Connelly,	6 03
Patrick Moynihan,	7 58
Andrew Hurley,	30 34
Daniel Cronin,	16 03
John Leary,	27 04
Frank MacCuskar,	22 56
Joseph Shepard,	5 83
John Schofield,	36 74
Timothy Madden,	30 53
Joseph Magnett,	7 00
John S. Ronan,	15 64
William Hardney,	15 45
George W. Chandler, team,	48 72
Jerry O'Leary,	2 32
John Murphy,	97
<i>Amount carried forward,</i>	\$2136 43

Appropriation, March 7th, \$3,500 00

<i>Amount brought forward,</i>	\$2136 43
John Howell,	78
Samuel Lewis,	17 50
John H. Leonard,	1 65
John L. Noyes,	8 08
Robert Watson,	6 59
S. Peterson,	5 83
Porter Livingston,	4 38
Clarence Spalding,	97
Harry Bourdelais.	6 61
Joseph Bourdelais,	71 84
Clarence J. Way,	10 68
Daniel Harrington,	2 63
Fred C. Way,	18 13
Frank Livingston,	6 13
Roscoe Webb,	1 56
Horace Hatch,	11 57
Augustus Upton,	6 22
Fred Dane,	7 88
Charles Livingston,	3 50
Joseph Gorst,	11 37
Walter Shaw,	7 00
Alvin Lovejoy,	8 50
John Greene,	7 75
George Shute,	5 25
Sylvanus Lovejoy,	7 87
Henry Bourdelais,	7 88
William Bourdelais,	2 92
Roland G. Pemberton,	1 00
J. S. Billington,	1 90
S. M. Jones,	2 13
Michael F. Welsh,	7 00
John Haggerty,	88 64

Amount carried forward,

\$2488 17

Appropriation, March 7th,	\$3,500 00
<i>Amount brought forward,</i>	\$2488 17
Frank Leonard,	8 75
E. Shattuck,	3 30
Andrew Steed,	3 31
Henry Shaw,	2 92
Arthur Shaw,	13 12
G. Borham,	1 75
Richard Sherry,	3 11
Patrick Conway,	54 83
W. Adams,	12 83
Michael Conley,	8 75
William Horan,	13 21
John Dearborn, jr.,	3 50
George Lawrence,	2 14
Robert Allen,	13 03
John Gile,	17 50
Michael Gile,	17 50
Harry Nason,	13 81
M. Conway,	5 84
William Ready,	10 31
Joseph Showder,	5 06
William Caffrey,	16 53
Thomas Joyce,	10 31
Charles Conway,	4 89
Ralph Ross,	14 78
Fred Stark,	8 16
John Graham,	8 75
John Hinchcliff,	3 90
John Lilly,	7 80
William McKeon,	3 90
Patrick Bernan,	1 55
Oscar Newcomb,	1 95
William Newcomb,	1 75
<i>Amount carried forward,</i>	<hr/> \$2787 01

Appropriation, March 7th,		\$3,500 00
<i>Amount brought forward,</i>	\$2787 01	
Patrick McEvoy,	12 25	
Horance Neal,	1 55	
Charles Perry,	1 75	
Charles Hoffman,	13 43	
Thomas Horan,	19 64	
James Oldroyd,	7 20	
John Burke,	7 80	
James Clinton,	21 39	
William Conway,	20 03	
Charles Morgan,	7 00	
Allen Simpson,	3 90	
Joseph Gombly,	12 83	
William Welsh,	3 50	
Patrick Ryan,	8 75	
Richard York,	7 40	
Charles Billington,	1 75	
William Greenwood,	1 95	
Edward Kneeland,	1 95	
Leonard York,	3 90	
Bert Moody,	8 75	
Solomon Mather,	11 30	
William Burke,	2 92	
Henry Platt,	3 70	
Joseph Oldroydd,	8 52	
Michael Cavaner,	2 75	
H. F. O'Donnell,	14 00	
Harry Kibbey,	3 12	
Joshua H. Chandler,	70 94	
Edward S. Hardy,	44 41	
John Sweeney,	13 31	
John W. Stark,	3 00	
B. W. Burt,	9 75	
<i>Amount carried forward,</i>	\$3168 45	

Appropriation, March 7th,	\$3,500 00
<i>Amount brought forward,</i>	\$3168 45
L. F. Murch,	5 97
John D. Driscoll,	24 92
C. L. Bailey,	7 78
John Collins,	5 25
William Lynch,	7 44
James Flint,	8 75
George Boutwell,	15 94
Samuel H. Boutwell,	44 86
Arthur Comeau,	3 89
George W. Chandler, salary,	170 00
W. T. Rea,	6 22
Charles Means,	9 00
George Chiras,	7 00
W. Craig,	11 23
Alexander E. Pelky,	1 56
Frank Deutremont,	2 43
E. L. Brown,	2 92
John Pitts,	1 75
A. M. Bancroft,	9 42
G. A. Leighton,	7 65
Bertie Mears,	5 25
Freeman Abbott,	33 75
Lewis A. Berry,	78
Frank Burke,	12 25
George L. Bursley,	7 00
George L. Averill,	6 30
Ernest E. Meyers,	9 87
George Goldsmith,	56 40
Daniel Fitzpatrick,	86 57
Almon Abbott,	4 52
N. G. Abbott,	2 62
M. A. Toomey,	6 65
<i>Amount carried forward,</i>	<hr/> \$3754 44

Appropriation, March 7th,	\$3,500 00
<i>Amount brought forward,</i>	\$3754 44
George Doyle,	17 50
T. Palmer Bailey,	1 75
Maurice Fitzgerald,	14 79
David Foley,	7 39
Nelson Hibbard,	6 12
James Donovan,	11 70
Henry K. Flint,	1 93
Samuel H. Bailey,	6 00
James Toye,	7 78
S. W. Hanson,	9 75
H. S. Johnson,	5 44
Patrick Hodnadd,	23 63
William Hobdy,	7 97
John Manning,	7 97
Edwin Flint,	3 11
George D. Sellars,	7 00
J. C. Morse,	12 45
George Carter,	8 75
John McGlynn,	7 78
James Lawlin,	11 28
Joseph Dourett,	11 90
Fred Murphy,	10 50
Charles Hurley,	12 25
Frank Fendleson,	12 25
Scott Shattuck,	17 50
J. H. Winslow,	9 95
O. Benson,	10 70
W. P. Jenkins,	6 45
Fred Andrews,	12 25
Arthur Hicks,	2 73
Mrs. N. F. Abbott, team,	23 91
Owen Sullivan,	5 83
<i>Amount carried forward,</i>	<hr/> \$4070 75

Appropriation, March 7th,		\$3,500 00
<i>Amount brought forward,</i>	\$4070 75	
Austin Noland,	78	
George C. Chandler,	1 25	
J. E. Hutchinson,	1 26	
Owen Tully,	7 00	
H. P. Dill,	7 00	
Charles McDermott,	3 50	
Albert Chadwick,	4 08	
Theopolis Jaggar,	8 99	
John Maroney,	16 53	
John Mahoney,	15 75	
John Henderson,	8 16	
Daniel Leary,	10 31	
John Madden,	18 28	
James Haggerty,	10 50	
Dennis Donovan,	11 28	
Seth Taylor,	78	
John Fleming,	78	
John Hannon,	78	
E. Law,	1 54	
James Anderson,	10 50	
Dennis Driscoll,	12 25	
Michael Stack,	23 32	
Total expenditure,	—————	\$4245 37
Overdrawn,		<u><u>\$ 745 37</u></u>

Sidewalks.

Appropriation, March 7th, 1898,	\$1500 00
Re-imbursed by abutters, 1898,	219 60
	<hr/>
	\$1719 60

Patrick McMullen, labor,	\$ 30 34
Frank McCuskar, labor,	30 34
John Schofield, labor,	64 93
John Leary, labor,	24 11
Timothy Madden, labor,	42 38
Timothy C. Sullivan, labor,	16 88
William Leary, labor,	28 35
Dennis Riley, labor,	32 07
John D. Driscoll, labor,	57 20
Joseph Shepard, labor.	40 25
John W. Stark, labor,	1 50
Hardy & Cole, labor, lumber and supplies,	72 24
George W. Chandler, team,	19 33
John Shepard, labor,	2 52
Turner Lord, labor,	2 88
Dennis P. Driscoll, labor,	4 27
John O'Collins, labor,	26 50
Swan Mateson, labor,	5 05
Cornelius Collins, labor,	2 52
John Ronan, labor,	9 52
Patrick Connolly, labor,	4 27
Thomas Lynch, labor,	2 52
Patrick Hodnadd. labor,	3 30
George L. Burnham, Supt., team,	6 50
Joseph Magnett, labor,	4 27
G. L. Tupper, labor,	2 50
Jerry Leary, team,	82 00

<i>Amount carried forward,</i>	<hr/> \$618 54
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Appropriation and reimbursement, March 7th,	\$1,719 60
<i>Amount brought forward,</i>	\$618 54
James Batrem, labor,	7 00
Mrs. N. F. Abbott, team,	18 00
George W. Chandler, salary,	83 00
Bailey & Chase, concreting,	160 40
W. L. Jones, edge stones,	25 75
W. F. Duffee & Co., concreting,	840 03
Total expenditure,	<hr/> \$1752 72
Overdrawn,	<hr/> <hr/> \$33 12

Macadam Roads.

Appropriation, March 7th, 1898,	\$4,000 00
George Saunders, supplies,	\$ 12 54
P. Eames, stone,	12 00
Frank E. Gleason, coal and team,	119 00
James H. Purr, labor,	162 00
Patrick McMullen, labor,	125 60
Joseph Shepard, labor,	80 64
Thomas Lynch, labor,	83 79
Dennis P. Driscoll, labor,	74 66
Dennis Riley, labor,	65 13
William Leary, labor,	99 93
John D. Driscoll, labor,	101 11
John Schofield, labor,	89 62
Swan Mateson, labor,	80 49
Timothy Madden, labor,	114 33
John S. Ronan, labor,	47 25
Turner H. Lord, labor,	137 09
Patrick Connelly labor,	83 04
George W. Chandler, team and coal,	200 40
George L. Burnham, Supt., labor,	265 50
Timothy C. Sullivan, labor,	132 23
Cornelius Collins, labor	107 30
Patrick Hodnadd, labor,	97 60
John O'Collins, labor,	243 00
John Haggerty, labor,	174 12
Patrick Conway, labor,	87 89
William Hardney, labor,	60 47
Joseph Magnett, labor,	59 30
John Leary, labor,	1 75
Frank McCuskar, labor,	1 75
Smith & Dove Manufacturing Co., waste, and repairing Crusher,	19 97
<i>Amount carried forward,</i>	<hr/> \$2939 50

Appropriation, March 7th,		\$4,000 00
<i>Amount brought forward,</i>	\$2939 50	
Henry McLawlin, supplies,	48 45	
T. P. Harriman, iron work,	16 40	
George W. Chandler, salary,	416 00	
Ammon Richardson, labor,	18 00	
J. O'Brien, labor,	78	
John Guthrie, labor,	78	
John Cullen, labor,	36 75	
James Batren, labor,	47 83	
Jerry Leary, labor,	159 00	
Dennis Gleason, labor,	45 50	
Erwin C. Pike, labor,	7 84	
Harry Bourdelais, labor,	7 00	
Mrs. N. F. Abbott, team,	27 00	
W. R. Rutter & Co., oil cups,	1 30	
Ames Plow Co., tray barrows,	24 00	
Treat Hardware and Supply Co., supplies,	2 85	
A. Beauregard, wood work,	7 50	
Watts Regulator Co., supplies,	8 42	
A. J. Wellington, parts to Crusher,	61 00	
Boston & Maine R.R., freight,	42	
Underhay Oil Co., oil,	31 93	
Anderson & Bowman, iron work,	3 00	
Total expenditure,	————	\$3911 25
Balance unexpended,		<u><u>\$ 88 75</u></u>

Horses and Drivers.

Appropriation, March 7th, 1898,		\$3,000 00
A. Beauregard, wood work,	\$ 34 75	
Henry McLawlin, supplies,	21 33	
George A. Mayer, harness,	138 35	
Frank E. Gleason, hay and straw,	65 22	
F. M. Smith, care of horses,	720 00	
J. O. Carter, care of horses,	150 00	
F. E. Morse, care of horses,	585 00	
Anderson and Bowman, iron work,	100 86	
Andover Electric Light Company, light,	15 00	
J. H. Campion & Co.,	105 35	
Boston & Maine R. R., freight,	3 50	
O. A. Kelley & Co., horses,	197 50	
Frank Carter, care of horses,	247 50	
George L. Burnham, Supt., hay,	87 30	
A. W. Baker, horse dentistry,	14 00	
T. P. Harriman, iron work,	74 99	
Smith & Manning, grain,	241 15	
Hardy & Cole, labor,	1 94	
Barnett Rogers' Agency, rent of barn,	28 00	
E. M. and W. A. Allen, medicine,	1 00	
C. W. Hudson Oil Co., oil,	1 50	
T. A. Holt and Co., grain,	111 19	
Charles F. Mayer, harness,	3 10	
Arthur Bliss, medicine,	4 80	
John Connelly, labor,	32 25	
Total expenditure,	————	\$2985 58
Balance unexpended,		<u>\$ 14 42</u>

HIGHWAY SURVEYOR'S REPORT.

To the Board of Selectmen:

I have the honor to submit the following report.

Work in the spring was begun by cutting trees and bushes on Woburn Street from Phillips Street to Spring Grove Cemetery, and a much needed sidewalk was built on one side the street with about four hundred (400) feet of fence along the north side.

Scraped the street and gravelled most of it from Phillips Street to the Cemetery, and rebuilt part of the culvert and retaining wall on Woburn Street.

The sidewalk on Phillips Street from Abbot Street to Mr. Chapin's was gravelled. Washington Avenue was gravelled and also most of the sidewalk on the avenue.

The road-scraper was used on Highland Street from Salem Street to North Andover line, and on Porter Street from Salem Street to Main, and part of the street was regavelled.

Salem Street was scraped from Highland Road to house of Perley Woodbridge. The Prospect Hill road from Salem Street to Miss Sawyer's and the road from C. C. Blunt's, Salem Street, to Highland Road were each improved by scraping. From John B. Jenkins' to the Reading line the road was scraped and about one half was regavelled.

About a half a mile of road from Salem Street past Mr. Geo. D. Millett's was scraped and repaired, and the road from near Mr. H. Carter's on Main Street, to the Wilmington road was scraped, and also the road from Lowell Street near Geo. Buchan's to past Joshua H. Chandler's, and from the West Parish Church to Frye Village.

The scraper was used on the River Road from the Lawrence line to the Fish Brook, and from Gerry Hardy's to C. I. Hood's and all of the large stones removed by digging and blasting. Two culverts relaid on the River Road, and the greater part of the Road from the Lawrence line to the house of John Maddox was regravelled ; the sides of the road were cleared and the bushes cut.

Concrete sidewalks have been laid as follows :

From corner of High Street to Maple Avenue on Elm St.; on Morton Street from Main Street to land of Trustees ; on School St. from Central St. to B. & M. R. R. station ; and in Ballardvale from F. G. Haynes' store to B. & M. R. R. and a short piece on Marland Street.

The roadway on School Street near George Piddington's has been so narrow that two teams could not pass without danger. As there was a lot of stone from the Sewer, I thought it would be well to use them in building a wall on the south side of the street, and to put in a sidewalk on the line where it should be,

The wall was built, taking about two hundred and fifty (250) perch of stone, but there was not time to build the sidewalk or to change the road-bed before the ground froze.

The bridge at Marland Village was replanked this year.

Essex St. has been improved by 450 feet of Macadam, and Central Street by 480 feet. On Summer St., we macadamized 225 feet, on Bartlet St. 640 feet, 1400 feet on Elm St., and had to rebuild one half the road made last year, from Morton St. to Town Hall on Main St., on account of the sewerage piping and the raising of the electric car track.

A great deal of extra work has been made necessary this year, in the center of the Town, by the sewer system. but hereafter these streets will probably be in better condition on account of the under-drainage.

There are about 600 loads of stone on hand for the crusher, gathered from the streets where the sewer was put in.

There will probably have to be a large amount of labor this spring on the streets where the sewer was put in, on account of the settling of the ground.

There is a loud call from all parts of the town for better roads and I would recommend that a larger appropriation of money be made this year, to meet the increasing demands.

One hundred and forty-five miles of road with bridges, culverts, sidewalks and gutters is a good deal to be cared for properly with the present appropriations.

I would recommend that the town raise \$4,000.00 for macadam roads, \$4,000.00 for highways and bridges and \$1500.00 for sidewalks; \$500.00 to be spent under the betterment act.

Respectfully,

GEORGE W. CHANDLER,

Highway Surveyor.

TOWN OFFICERS.

Appropriation, March 7th, \$5000 00

Water Commissioners :

John H. Flint,	\$ 40 00
F. G. Haynes,	30 00
J. P. Butterfield,	30 00

Clerk, Treasurer, Selectmen, Assessors,
Overseers of Poor :

A. Marland,	1000 00
George A. Parker,	400 00
Wm. G. Goldsmith,	400 00
Samuel H. Boutwell,	300 00
John S. Stark,	300 00

Registrars of Voters :

Henry McLawlin,	21 75
Joseph F. Cole,	21 75
John Davey,	23 50
A. Marland,	21 75

Auditors of Accounts :

G. A. Higgins,	5 00
Louis A. Dane,	5 00
Chas. B. Jenkins,	5 00

Police :

Geo. W. Mears,	690 00
J. W. Mooar, night watchman,	453 50
Wm. H. Sleath,	12 75
John Fellows, jr.,	58 50

<i>Amount carried forward,</i>	\$3818 50
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Appropriation, March 7th,		\$5,000 00
<i>Amount brought forward,</i>	\$3818 50	
W. F. Dane,	1 00	
F. A. Swanton,	15 25	
W. H. Carter,	13 75	
M. T. Welch,	53 50	
W. L. Frye,	37 25	
N. Jaquith, jr.,	45 00	
John H. Clinton,	5 00	
E. H. Shattuck,	53 00	
W. H. Goff,	10 50	
Wm. Gillespie,	1 00	
Board of Health :		
Chas. E. Abbott, M. D., secretary,	50 00	
Election Officers :		
Geo. A. Higgins and 17 others,	82 00	
Owen F. Caffrey and 7 others,	32 00	
Town Counsel :		
Geo. A. Poor,	10 00	
Fire Wards :		
John B. Jenkins and 2 others,	16 25	
John B. Jenkins and 1 other,	10 00	
H. L. Neal and 12 others,	7 50	
Fred Symonds,	1 50	
Thos. E. Gray,	1 50	
Allan Simpson and 6 others,	2 00	
Allan Simpson and 11 others,	16 50	
W. I. Morse and 8 others,	18 00	
Louis A. Dane,	3 00	
Total expenditure,	—————	\$4304 00
Unexpended,		<u><u>\$696 00</u></u>

Town House.

Appropriation, March 7,		\$1000 00
Robert Bell, labor,	\$300 00	
Hardy & Cole, work on police station and bulkhead,	21 81	
Henry McLawlin, supplies,	5 96	
Andover Electric Co., light,	103 23	
Andover Electric Co., footlights, etc.,	37 00	
E. C. Pike, supplies,	22 10	
Grace Wyllie, labor,	1 00	
A. W. Caldwell, painting,	18 14	
F. A. Bodwell, painting,	15 50	
Lawrence Decorating Co., mending flags,	8 00	
Frank E. Dodge, plastering,	17 00	
Tuttle's Express,	2 00	
Hardy & Cole, bookcase and repairs,	60 61	
Henry Harmon, repairing roof,	42 69	
Smith & Manning, supplies,	71	
Frank E. Gleason, coal,	214 74	
H. F. Chase, keys and repairing lock,	1 85	
H. P. Noyes, labor and supplies,	14 71	
Hardy & Cole, repairs and labor,	6 34	
John Conolly, labor,	4 50	
A. W. Baker, wood,	6 00	
Moses V. Gleason, labor on boiler,	19 38	
Brainard Cummings, labor,	2 60	
Samuel C. Meader, painting and glazing,	9 40	
Total expenditure,	————	\$935 27
Balance unexpended,		<u>\$64 73</u>

Fire Department.

Appropriation, March 7th,		\$2500 00
J. Napier, labor,	2 20	
B. W. H. & Rubber Co., supplies,	99 65	
Hardy & Cole, repairs,	58 12	
Lawrence Elect. & Const. Co., supplies,	62 11	
A. W. Caldwell, painting,	1 50	
J. E. Whiting, cleaning clock,	75	
Smith & Dove Mfg. Co., supplies,	32 68	
C. N. Perkins & Co., repairs,	7 00	
Boston & Maine R. R., freight,	33	
Greene & Woodlin, supplies,	6 04	
Tuttle's Express,	21 92	
Geo. A. Mayer, repairs,	17 15	
Andover Electric Co., light,	154 14	
Henry McLawlin, supplies,	14 60	
Blois' Express,	2 00	
R. G. Pemberton, labor,	5 60	
T. H. Bentley, labor,	6 60	
C. A. Morse, labor,	2 25	
D. Donovan & Son, painting,	135 43	
Frank E. Dodge, work on boiler,	10 38	
H. S. Neal, pay roll,	260 00	
Chas. F. Mayer, harness, whiffletree and chains,	42 50	
H. S. Neal, labor and supplies,	2 50	
E. H. Shattuck, repairs on wagon,	2 00	
McDonald & Hannaford, repairing harness,	1 00	
H. P. Noyes, supplies and labor,	7 73	
F. G. Haynes & Co., supplies,	3 70	
Treat Hardware Co., iron bar,	16	
Allan Simpson, pay roll,	30 00	
Allan Simpson, engineer,	35 00	
<i>Amount carried forward,</i>		\$1025 04

Appropriation, March 7th,	\$2500 00
<i>Amount brought forward,</i>	\$1025 04
Allan Simpson, labor and supplies,	8 40
Geo. Lawrence, labor,	7 75
Andrew McTernen, engineer,	35 00
Walter I. Morse, pay roll,	407 50
Geo. D. Lawson, repairs,	2 00
Geo. D. Lawson, engineer and clerk,	50 00
Lewis T. Hardy, chief,	100 00
John Harnden, engineer,	114 58
Wm. H. McTernen, janitor,	192 00
John Haggerty, services,	162 25
Louis A. Dane, engineer and work on hydrants,	50 00
Geo. W. Chandler, coal,	28 03
W. H. Higgins, teams and supplies,	11 00
American Express Co.,	2 15
Geo. D. Lawson, pay roll,	9 00
John McCarthy, labor,	38 30
John Keeland, feeding horses,	3 40
Ray Frankhauser, harness,	50 00
R. J. Sherry, stabling horses,	1 00
E. C. Pike, supplies,	16 00
Harry A. Glazier, hangers,	14 00
American Fire Engine Co., engine grate,	3 25
Thos. P. Harriman, labor and stock,	5 00
Buckley, McCormick & Sullivan, 12 shades,	4 20
Frank E. Gleason, coal and wood,	147 59
Tyer Rubber Co., labor and supplies,	6 06
H. F. Chase, 1 key,	25
The Andover Press, printing,	2 50
Thomas Joyce and another, labor,	3 00
C. H. Shattuck, M. D., supplies,	75
Total expenditure,	<hr/> \$2500 00 <hr/>

Fire Alarm.

Appropriation, March 7th,		\$300 00
Lawrence Electric Supply Co., labor and supplies,	\$57 81	
N. E. Gamewell Co., supplies,	97	
Louis A. Dane, services,	98 85	
Pettingell Andrews Co., supplies,	11 65	
George A. Mayer, supplies,	75	
Tyer Rubber Co., supplies and blowing whistle,	72 60	
Henry McLawlin, supplies,	27 25	
W. H. Higgins, teams,	7 50	
Hardy & Cole, labor and stock,	42	
Tuttle's Express,	90	
Total expenditure,	————	\$278 70
Balance unexpended,		<u>\$21 30</u>

Ballardvale Engine House.

Appropriation, March 7th,		\$500 00
E. J. Rowe, painting,	\$136 00	
Ralph R. Ross, labor,	27 45	
Hardy & Cole, labor and stock,	310 32	
Lawrence Electric Sup. Co., labor and supplies,	11 70	
Bailey & Chase, concrete,	13 20	
Total expenditure,	————	498 67
Balance unexpended,		<u>\$1 33</u>

Park Commission.

Appropriation, March 7th,		\$1200 00
Andover Press, 50 linen signs,	\$ 3 00	
Hardy & Cole, seats and signs,	19 86	
Hardy & Cole, fence,	23 00	
John H. Flint, deed of land,	100 00	
Henry Provo, 116 days, 2 3-4 hours,	203 49	
Thos. P. Harriman, repairing rakes and clipper,	65	
Dennis Sweeney, repairing grub hoes,	1 00	
Elemuel Brown, 3 hours work,	60	
Cornelius Sullivan, 14 days, 8 1-2 hours,	22 34	
Henry Symonds, 41 days, 3 1-2 hours,	72 52	
Wm. G. Goldsmith, 902 hours,	180 40	
Wm. G. Goldsmith, horse and wagon 4 1-2 days,	5 67	
Treat Hardware Supply Co., 84 ft. 6 in. pipe,	6 30	
Treat Hardware Supply Co., 18 ft., 12 in. pipe,	3 83	
Henry McLawlin, scythes, etc.,	7 17	
Flint Symonds, 56 days, 2 3-4 hours,	84 37	
John E. Murphy, 3 days,	4 50	
John W. Kidder, 8 1-2 days,	12 75	
Reuben O. Eldred, 10 days,	15 00	
J. T. Lovejoy and others, work on car- riage road,	433 00	
Total expenditure,	————	1199 45
Balance unexpended,		<u>\$ 55</u>

State Aid.

Appropriation, March. 7th,		\$1600 00
Robert Bell,	\$44 00	
Lucy M. Buxton,	30 00	
Christina Bell,	12 00	
Benjamin Cheever,	72 00	
Betsey J. Cheever,	48 00	
Samuel Cheever,	46 00	
Elizabeth R. Carter,	16 00	
George Craig,	12 00	
Ellen Craig,	48 00	
Malachi Clinton,	16 00	
Deborah M. Cushing,	48 00	
Elmore Dane,	53 50	
Augustus M. Davis,	48 00	
Rhoda Davis,	36 00	
Marian Davis,	40 00	
John S. Dearborn,	18 00	
Theodore A. Gibbs,	60 00	
Phoebe Greene,	48 00	
Eliza A. Higgins,	12 00	
William S. Hodgman,	72 00	
Martha M. Hovey,	48 00	
Ann Hunter,	48 00	
Susan M. Holt,	20 00	
Lizzie A. Johnson,	48 00	
John McKenzie,	54 00	
Bridget McCullough,	48 00	
Sarah McGunness,	40 00	
James McDonald,	48 00	
John McCarthy,	23 00	
Charles Mears,	44 00	
Sarah Mears,	4 00	
John P. Morgan,	30 00	
<i>Amount carried forward,</i>	<hr/>	\$1234 50

Appropriation, March 7th,		\$1600 00
<i>Amount brought forward,</i>	\$1234 50	
Margaret Morrow,	48 00	
William B. Morse,	23 00	
George W. Parker,	48 00	
John Parton,	50 00	
Bridget Pasho,	48 00	
Edward D. Pearson,	32 00	
George E. Pike,	32 00	
Joseph Russell,	48 00	
Martha Russell,	48 00	
Richard W. Simonds,	30 00	
Etta Simonds,	28 00	
Henry Shaw,	46 00	
Laura F. Smith,	12 00	
Nancy M. Travis,	48 00	
Total expenditure,	————	1775 50
Overdrawn,		<u>\$175 50</u>

The State Aid is paid to disabled soldiers— (and their wives)— and soldiers' widows who draw pensions from the U. S. Government. It is paid only upon the approval of the Commissioners of State Aid. The whole amount is repaid to the Town by the State.

State Aid. War with Spain.

No appropriation.	
Esther A. Brochu,	\$28 00
Winifred Brochu,	28 00
Elizabeth B. Henderson,	28 00
George Henderson,	28 00
William Henderson,	28 00
Jemima A. Henderson,	28 00
<i>Amount carried forward,</i>	<u>\$168 00</u>

No appropriation.

<i>Amount brought forward,</i>	\$168 00	
John M. Henderson.	28 00	
Bertha W. Henderson,	28 00	
Nellie W. Smith,	28 00	
Donald Smith,	28 00	
Harold Smith,	28 00	
Total expenditure,	<hr/>	\$308 00

Military Aid.

Appropriation, March 7th,		\$300 00
Joseph G. Nolan,	\$96 00	
Charles D. Woodbridge,	96 00	
Nathan H. Gray,	30 00	
Total expenditure,	<hr/>	222 00
Balance unexpended,		<hr/> \$78 00

The Military Aid is paid to disabled soldiers who do not draw pensions. It is paid only upon the approval of the Commissioners of State Aid. One half of the amount is repaid to the Town by the State.

250th Anniversary.

Appropriation, March 7th,		\$538 79
Unexpended, 1897,		126 62
		<hr/> \$665 41
Andover Press,	\$665 41	
Total expenditure,	<hr/>	\$665 41

Memorial Day.

Appropriation, March 7th,		\$200 00
B. Cummings, Quartermaster, Post 99, G.A.R.,		200 00
		<hr/>

Spring Grove Cemetery.

Appropriation, March 7th,		\$300 00
Sale of lots, etc.,		391 50
		<hr/> \$691 50
Hardy & Cole, labor and stock,	\$ 47 30	
W. H. Higgins, teams,	4 00	
M. T. Stack, labor,	39 00	
John Allicon, labor,	108 00	
Philip Allicon, labor,	38 50	
T. Connors, labor,	38 50	
T. Connell, labor,	101 50	
H. McLawlin, supplies,	7 30	
Henry Allicon, labor,	6 13	
George W. Foster, deeds and recording,	12 75	
O. W. Vennard, superintendent, etc.,	97 00	
H. A. Hayward, 11 loads of gravel,	5 50	
Smith & Manning, grass seeds, etc.,	7 43	
Thos. P. Harriman, drills, etc.,	4 80	
Francis H. Foster, surveying,	2 00	
E. Worthington, survey and plan,	87 00	
Total expenditure,	<hr/>	\$606 71
Balance unexpended,		<hr/> \$84 79 <hr/>

The Boulders.

Appropriation, March 7th,		\$200 00
George W. Chandler, labor,	\$ 57 75	
Henry McLawlin, supplies,	25	
W. F. Duffee & Co., concreting,	144 08	
Total expenditure,	<hr/>	202 08
Overdrawn,		<hr/> \$2 08 <hr/>

Printing and Stationary.

Appropriation, March 7,		\$700 00
George A. Parker, stamps,	4 00	
George E. Hussey, rubber stamps and ink,	1 75	
Andover Press, printing,	579 65	
Henry M. Meek, books,	4 50	
George A. Parker, book,	3 00	
A. E. Martell & Co., police letter book,	5 00	
George A. Higgins & Co., supplies,	18 24	
George A. Parker, stamped envelopes,	76 30	
A. W. Brownell, dog blanks,	2 50	
M. F. Colburn, water bonds,	32 50	
Bufford Sons Engraving and Lith. Co. sewer bonds,	115 00	
S. J. Bucklin, sewer bids,	1 50	
The Fairbanks Co., scale weigh book,	6 00	
Thos. Groom & Co., tax book,	2 00	
Wm. A. Currie & Co., check books,	24 50	
Total expenditure,	—————	\$876 44
Overdrawn,		<u>\$176 44</u>

Hay Scales.

Appropriation, March 7th,		\$50 00
Allen F. Abbott, labor and stock,	\$12 13	
J. M. Bean, services,	25 00	
Total expenditure,	—————	37 13
Balance unexpended,		<u>\$12 87</u>

State Highway.

Received from State Treasurer,		\$606 64
Mass. Broken Stone Co.,		600 14
Unexpended,		<u>\$6 50</u>

Care of Dump.

Appropriation, March 7th,		\$50 00
Unexpended 1897,		14 50
		<hr/>
		\$64 50
Henry Provo,	\$30 00	
Total expenditure,	<hr/>	\$30 00
Unexpended,		<hr/>
		\$34 50
		<hr/>

Street Lighting.

Appropriation, March 7th,	\$4150 00
W. H. Coleman, Treasurer,	4078 37
	<hr/>
Balance unexpended,	\$71 63
	<hr/>

Ware Fund.

Unexpended balance,	\$95 09
W. F. Duffee & Co., concreting,	\$95 05
Total expenditure,	<hr/>
	95 05
Balance unexpended,	<hr/>
	04
	<hr/>

Sinking Fund.

Appropriation, March 7th,	\$875 00
Geo. A. Parker, deposited in Savings Banks,	875 00
	<hr/>

Maintenance Waterworks.

Appropriation, March 7th,	\$4200 00
George A. Parker, Treasurer,	4200 00
	<hr/>

Redemption of Bonds.

Appropriation, Voted Oct. 21, 1889,	\$5000 00
George A. Parker, Treasurer,	\$5000 00
Total Expenditure,	<hr/>
	\$5000 00
	<hr/>

Abatement of Taxes.

Appropriation, March 7th,		\$300 00
S. F. E. Company, No. 1, poll-taxes,	\$36 00	
S. F. E. Company, No. 2, poll-taxes,	20 00	
Geo. A. Parker, Treasurer,	484 66	
Total expenditure,	<hr/>	540 66
Overdrawn,		<u>\$240 66</u>

State Tax.

Appropriation, March 7th,	\$5000 00
E. P. Shaw, Treasurer,	<u>3720 30</u>
Balance unexpended,	<u>\$1279 70</u>

County Tax.

Appropriation, March 7th,	\$5000 00
E. K. Jenkins, Treasurer,	<u>4353 35</u>
Balance unexpended,	<u>\$646 65</u>

Interest.

Appropriation, March 7th,	\$9500 00
Andover National Bank,	\$1533 56
Memorial Hall Notes,	1400 00
Andover Water Bonds,	7203 38
S. A. Mason,	60 33
N. Jaquith,	360 00
Total paid,	<hr/> 10557 27
Overdrawn,	<u>\$1057 27</u>

Notes Paid.

1898, Apr. 11, No. 68,	\$10000 00
Oct. 7, No. 69,	5000 00
Nov. 10, No. 54,	1500 00
Nov. 14, No. 70,	6000 00
Nov. 14, No. 71,	5000 00
Nov. 14, No. 72,	10000 00
Nov. 3, No. 73,	13000 00
Nov. 8, No. 74,	6000 00
Nov. 8, No. 75,	2000 00
Nov. 8, No. 76,	5000 00
Nov. 1, No. 77,	4000 00
1899, Jan. 17, No. 78,	9500 00
Jan. 17, No. 79,	10000 00
Jan. 17, No. 80,	6000 00
Total,	<u>\$93000 00</u>

Notes Discounted.

1898, Feb. 7, Note No. 69,	\$5000 00
Mar. 14, Note No. 70,	6000 00
Apr. 4, Note No. 71,	5000 00
Apr. 11, Note No. 72,	10000 00
May 2, Note No. 73,	13000 00
June 6, Note No. 74,	6000 00
June 6, Note No. 75,	2000 00
July 5, Note No. 76,	5000 00
Aug. 7, Note No. 77,	4000 00
Nov. 7, Note No. 78,	9500 00
Nov. 11, Note No. 79,	10000 00
Nov. 14, Note No. 80,	6000 00
1899, Jan. 14, Note No. 81,	18000 00
Amount discounted,	<u>\$99500 00</u>

Insurance Account.

Appropriation, March 7th,	\$200 00
Joseph A. Smart, agent,	108 05
Balance unexpended,	<u>\$91 95</u>

Miscellaneous.

Appropriation, March 7th,	\$1500 00
W. H. Higgins, teams,	\$96 75
C. H. Shattuck, M.D., medicine,	2 00
Greenough, Adams & Cushing, ink,	1 50
Henry M. Meek, books,	2 50
Joseph P. Nolan, inspecting plumbing,	22 00
P. J. Daley, damages,	5 00
Frank H. Messer, returning deaths, 1897,	17 50
J. F. Richards, M.D., returning births, 1897,	5 75
Arthur Bliss, supplies Board of Health,	23 00
Ira B. Hill, teams,	56 00
J. E. Keeland, stabling,	50
Charles E. Abbott, M.D., returning births,	4 75
Barnett Rogers, teller,	3 00
S. J. Bucklin, services,	55
George W. Mears, car fare and feeding prisoners,	35 12
Charles E. Abbott, vaccinating school children,	30 00
J. A. Smart, bond for town treasurer,	100 00
George H. Poor, fees,	31 00
F. M. Hill, services,	18 21
A. H. L. Bemis, meals,	50
G. J. M. Bemis, meals,	4 85
S. H. Boutwell, expenses,	4 81
John H. Clinton, services,	3 50
T. F. Pratt, damage to horse,	170 00
Jordan, Marsh & Co., flag,	19 25
George W. Foster, recording deed,	65
George H. Carlisle, telephone,	3 85
J. A. Leitch, medical attendance,	3 00
A. I. Felton, book,	1 50
M. A. Clement, telephone,	3 49
<i>Amount carried forward,</i>	<u>\$670 53</u>

Appropriation, March 7th,		\$1500 00
<i>Amount brought forward,</i>	\$670 53	
Boston Daily Advertiser, advertising,	8 50	
N. E. Tel. & Tel. Co., moving and setting poles,	10 00	
J. H. Blunt, telephone pole,	5 00	
J. W. Mooar, taking school census,	40 00	
C. H. Newton, cattle inspector,	245 00	
American Express Co.,	30	
George E. Hussey, rubber stamps,	4 75	
Estate of John H. Dean, policeman's coat,	9 00	
John Kimball, agt., fifty ride ticket,	17 25	
Arthur Bliss, telephone,	3 35	
George A. Parker, postage stamps,	1 00	
John Fellows, jr., team,	1 00	
Colver J. Stone, services,	10 00	
Hardy & Cole, labor and stock,	4 32	
Henry W. Cunningham, pruning trees,	2 20	
Charles Clarke & Son, vaccine virus,	2 70	
Aretas R. Sanborn, Rgr., recording deed,	67	
E. T. Barnum, jail cells,	197 50	
John W. Stark, team,	2 00	
John A. Riley, labor and supplies,	6 20	
John Pray, teams,	4 00	
Charles O'Hara, damages and doctor's bill,	79 50	
Andover Electric Co., pocket lamp,	4 00	
William Odlin, typewriting, etc,	18 40	
J. A. Leitch, M.D., returning births,	9 00	
Tuttle's Express,	15	
Total expenditure,	————	\$1356 32
Balance unexpended,		<u>\$143 68</u>

Summary of Appropriations and Receipts.

Abatement of Taxes,	300 00
Ballardvale Engine House,	500 00
County Tax,	5000 00
Fire Alarm,	300 00
Fire Department, Running Expenses,	2500 00
Hay Scales,	50 00
Highways and Bridges, Repairs on	4740 00
Horses and Drivers,	3000 00
Insurance,	200 00
Interest on Notes, Funds, and Bonds,	9500 00
Macadamized Roads,	4000 00
Memorial Day,	200 00
Military Aid,	300 00
Miscellaneous,	1500 00
Park Commission,	1200 00
Printing and Stationery,	700 00
Public Dump,	64 50
Redemption of Bonds,	5000 00
Removing Snow,	3500 00
Schools,	21000 00
School-Books and Supplies,	1500 00
School-Houses,	2200 00
Sidewalks,	1719 60
Sinking Fund,	875 00
Spring Grove Cemetery,	691 50
State Aid,	1600 00
State Aid—War with Spain,	00 00
State Highway,	606 64
State Tax,	5000 00
Street Lighting,	4150 00
The Boulders,	200 00
Town House,	1000 00
Town Officers,	5000 00
Ware Fund,	95 09
Waterworks, Maintenance,	4200 00
250th Anniversary,	665 41

Summary of Selectmen's Orders.

Abatement of Taxes,	\$540 66
Ballardvale Engine House,	498 67
County Tax,	4353 35
Fire Alarm,	278 70
Fire Department,	2500 00
Hay Scales,	37 13
Highways and Bridges,	4787 90
Horses and Drivers,	2985 58
Insurance,	108 05
Interest on Notes, Funds and Bonds,	10557 27
Macadamized Roads,	3911 25
Memorial Day,	200 00
Military Aid,	222 00
Miscellaneous,	1356 32
Park Commission,	1199 45
Printing and Stationery,	876 44
Public Dump,	30 00
Redemption of Bonds,	5000 00
Removing Snow,	4245 37
Schools,	20998 96
School-books and School supplies,	1499 31
School-houses,	2199 57
Sidewalks,	1752 72
Sinking Fund,	875 00
Spring Grove Cemetery,	606 71
State Aid,	1775 50
State Aid—War with Spain,	308 00
State Highway,	600 14
State Tax,	3920 30
Street Lighting,	4078 37
The Boulders,	202 08
Town House,	935 27
Town Officers,	4304 00
Ware Fund,	95 05
Waterworks, Maintenance,	4200 00
250th Anniversary,	665 41

SCHEDULE OF TOWN PROPERTY.

Town House, fixtures, and furniture,	\$22000 00
Land,	4000 00
School-house property,	114500 00
Punchard School Fund,	75200 00
Memorial Hall and Land,	28500 00
Memorial Hall permanent Fund,	20000 00
Memorial Hall Library, John Byers Fund,	5000 00
Memorial Hall Library and Furniture,	9000 00
Town Farm and buildings,	12000 00
Personal property at Town Farm,	3585 00
Two Engine-houses and Shed,	12000 00
Two Steam Fire-engines and apparatus,	10000 00
One Hand-engine and apparatus,	200 00
One Hook and Ladder Truck,	400 00
Six Horses,	1000 00
Stone Breakers and Engine,	3200 00
Carts, Harnesses, and Tools,	500 00
Waterworks Property,	200000 00
Indian Ridge Land,	4000 00
Spring Grove Cemetery and Receiving Tomb,	7000 00
Hay Scales,	350 00
Safe in Town House,	450 00
Weights and measures,	325 00
Total,	<u>\$533,210 00</u>

OVERSEERS OF POOR.

We consider ourselves fortunate in still retaining the services of Mr. and Mrs. Burnham whose management is entirely satisfactory to the Overseers, and we would invite the people of the town, both men and women, to visit the Almshouse and note its condition and the provision made for the care and comfort of the inmates.

Almshouse Expenses.

Appropriation, March 7th, 1898.		\$4000 00
Smith & Manning, groceries,	\$622 85	
E. C. Pike, supplies,	23 60	
A. Beauregard, wheelwright work,	11 75	
J. P. Wakefield, provisions,	167 32	
Valpey Bros., provisions,	248 24	
J. E. Sears, shoes,	10 19	
Fred'k C. Small, tea and coffee,	34 87	
Henry McLawlin, hardware,	70 67	
F. E. Gleason, coal,	340 93	
W. T. Lewis, wood,	6 00	
Codman and Shurtliff, supplies,	3 10	
Geo. S. Fuller, services,	37 25	
T. J. Farmer, fish,	65 95	
J. E. Whiting, clock repairing,	3 80	
M. A. Clement, supplies,	24 53	
T. A. Holt & Co., groceries,	430 41	
Beach Soap Co., soap,	12 00	
E. W. Pierce, grain,	282 03	
F. A. Warren, clothing,	42 75	
<i>Amount carried forward,</i>	<hr/>	\$2438 34

Appropriation, March 7th, \$4000 00

<i>Amount brought forward,</i>	\$2438 34
S. H. Boutwell, plants and vegetables,	40 95
W. H. Higgins, pair horses,	290 00
J. H. Campion & Co., groceries,	75 45
Anderson & Bowman, blacksmith work,	48 30
Andover Press, printing,	3 00
F. Putnam & Co., seed potatoes,	29 70
G. L. Averill, fertilizer, etc.,	36 68
Charles Jameson, killing hogs,	5 00
Schlegel & Fottler, seeds,	9 13
C. W. Leonard & Co., disinfectant,	3 80
G. A. Mayer, harness work,	20 45
Lawrence Provision Co., provisions,	10 75
Fred P. Berry, furniture,	22 05
Barnett Rogers, rent of pasture,	15 00
T. P. Harriman, blacksmith work,	26 03
H. P. Noyes, furniture,	42 08
M. E. Austin & Co., hardware,	1 35
Reid & Hughes, dry goods,	93 46
McDonald & Hannaford, harness work,	5 25
G. H. Kittredge, crockery,	8 89
G. H. Carlisle, supplies,	1 25
D. A. Carleton, cows,	135 00
Tuttle & Morrison, wheelwright work,	3 75
F. P. Higgins, bread,	32 48
C. F. Mayer, harness work,	1 00
Joseph Breck & Co., seeds,	2 75
G. L. Burnham, conveying paupers,	15 25
Benjamin Brown, shoes,	29 35
H. F. Chase, supplies,	2 65
J. C. Poor, use of cart,	7 00
J. W. Barnard & Son, shoes,	80
B. F. Holt, ice,	25 00

Amount carried forward, \$3481 84

Appropriation, March 7th, \$4000 00

Amount brought forward, \$3481 84

J. E. Hutchinson, fish, 27 76

G. H. Parker, medicine, 15 20

O. P. Chase, papers, 8 43

A. Bliss, medicine, 50 20

G. L. Burnham, superintendent, 700 00

Boston & Maine R. R., freight, 17 96

James Conlon, labor, 20 00

G. Louis Burnham, labor, 285 00

Nora Bowler, labor, 216 50

L. F. Murch, manure, 23 00

Mary A. Spofford, sewing, 29 00

Lewis M. Pierce, labor, 114 42

J. Warren Mooar, painting, 5 00

H. B. Evans, nursery stock, 14 25

R. W. Coleman, labor and stock, 2 25

John McGlynn, labor, 10 50

Herman Bubalo, labor, 40 00

B. W. Burt, wood, 9 00

James Hurney, labor, 120 00

E. F. Abbott, labor, 4 50

Fred Watson, labor, 25 00

D. Donovan, cow, 50 00

Total expenditure, \$5269 81

Overdrawn, \$1269 81

Repairs on Almshouse.

Appropriation, March 7th, 1898, \$500 00

And balance unexpended last year (\$193.80), 193 80

\$693 80

A. W. Caldwell, painting, 33 35

Richard Williamson, labor and stock, 20 25

Amount carried forward, \$ 53 60

Appropriation and unexpended balance, March 7th, \$693 80

<i>Amount brought forward,</i>	\$53 60	
H. McLawlin, hardware,	50 37	
E. C. Pike, labor and stock,	4 82	
Hardy & Cole, labor and stock,	466 16	
M. V. Gleason, labor and stock,	18 53	
F. E. Dodge, labor and stock,	4 75	
J. J. Donovan, labor and stock,	36 00	
Bailey & Chase, concrete,	24 00	
Total expenditure,	————	\$658 23
Balance unexpended,		<u>\$35 57</u>

Relief Out of Almshouse.

Appropriation, March 7th, \$5000 00

Otis White, 1897,	\$ 6 50
Hattie N. Hatch,	11 00
Samuel O. Cheever,	38 64
Mrs. Campbell,	10 00
Mrs. Julia Cotter,	85 00
Kate Forsaith,	36 00
Mrs. Mary Fenlason,	48 00
Family of Robertina Crockett,	75
Jane Cronin,	32 00
Hannah Connelly,	48 00
Hannah Hayes	98 00
Mrs. Wm. B. Osgood,	96 00
Mrs. Julia Murphy,	60 30
Mrs. Mary Lord,	159 50
Mrs. Jessie Baxter,	96 00
John D. Lynch,	120 00
Mrs. Ellen Connor,	163 50
Michael Troy, 1897,	7 89

Amount carried forward, \$1117 08

Appropriation, March 7th, \$5000 00

<i>Amount brought forward,</i>	\$1117 08	
Rosetta Morrison,	68 75	
Child of Annie Warden,	32 00	
Eliza Martin,	75 00	
Mrs. Elizabeth McGovern,	27 20	
William Hartley, 1897,	6 50	
Mary Comber,	204 50	
Dennis J. Carey,	42 00	
Child of Annie Qualey,	96 00	
Joseph B. Fiske,	25 75	
Eliza Abercrombie,	32 00	
Joseph Hird,	140 27	
Eliza Fleming,	48 10	
Mrs. John Green,	161 10	
Fanny White,	13 00	
Mrs. Kate Rogers,	184 56	
Mrs. Sarah McCready,	166 45	
Dennis P. Driscoll,	5 00	
Mrs. Mary Holland,	130 40	
F. I. Nute,	3 00	
James Russell,	2 00	
William Driscoll,	3 00	
Dr. C. E. Abbott, town physician,	200 00	
Expense visiting paupers and looking up pauper settle- ments,	59 48	
	<hr/>	\$2843 14

Soldiers' Relief.

Nathan H. Gray,	\$ 1 00	
Ann Ahearne,	48 00	
Mrs. L. M. Mason,	92 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$141 00	\$2843 14

Appropriation, March 7th, \$5000 00

<i>Amounts brought forward,</i>	\$141 00	\$2843 14
Mrs. Emma Shattuck,	136 70	
Mrs. Jane Lindsay,	181 35	
Mrs. Etta Simonds,	25 00	
George E. Pike,	240 00	
Elmore Dane,	108 00	
Mrs. John C. Hovey,	173 00	
William S. Hodgman,	90 80	
Mrs. George Craig,	96 00	
Mary Russell,	48 50	
Mrs. Lucy M. Buxton,	49 00	
George Henderson,	149 03	
John Henderson,	113 60	
Solon Johnson,	30 35	
Benjamin Cheever,	251 95	
	————	\$1834 28

Amounts Due from Commonwealth.

Fred Rhodes,	\$ 40	
John Porte,	65 34	
John Fraize,	96 89	
Bernard Sweeney,	136 97	
Thomas White,	7 50	
Unknown man (burial),	5 00	
Charles Baker,	131 20	
Nisham Geyikian,	69 40	
Mathew Jaaska,	19 15	
Niles Peter Paulson,	5 96	
	————	\$537 81
<i>Amount carried forward,</i>		\$5215 23

Appropriation, March 7th,		\$5000 00
<i>Amount brought forward,</i>	\$5215 23	

Amounts Due from Cities and Towns.

Lynn, John Parton,	\$ 97 50	
Lawrence, Robert Gennell,	12 00	
No. Andover, Mrs. Harrington,	129 00	
Lawrence, Wm. Henry Hollis,	15 00	
Lowell, Lizzie Carroll,	75	
Sudbury, Mrs. Sarah Taylor,	11 27	
North Andover, Ann Shanahan,	46 50	
Boston, Mrs. Johanna O'Hara,	48 31	
Boston, Amos Potter,	50 70	
	<hr/>	\$411 03

Paid Cities and Towns.

Lawrence, Mrs. J. M. Abbott,	\$60 00	
Boston, Mary B. Lord,	4 00	
Stoughton, Mary B. Lord,	36 00	
	<hr/>	\$100 00

Paid Cities and Towns. Soldiers' Relief.

Rockland, Sarah D. Nolan,	62 50	
	<hr/>	\$62 50

Lunatic Hospitals.

Medfield, George F. Stevens,	\$146 00	
Danvers, Olga Mayer,	169 47	
Danvers, William B. Osgood,	169 46	
Medfield, Henry Smith,	146 00	
Danvers, Bridget Dwane,	169 46	
Danvers, Bridget Hayes,	169 45	
Medfield, Charles L. Holt,	146 00	
Danvers, Mary Riley,	169 46	
Danvers, Mary O'Connor,	169 46	
State Farm, Wm. J. Driscoll,	73 20	
	<hr/>	\$1527 96

Total expenditure,		\$7316 72
Overdrawn,		\$2316 72

Summary of Overseers' Orders.

Total appropriation, March 7th,		\$9693 80
Almshouse expenses,	\$5269 81	
Relief out of Almshouse,	7316 72	
Repairs on Almshouse,	658 23	
Total expenditure,	—————	\$13244 76
Overdrawn,		<u>\$3550 96</u>

Respectfully submitted,

WM. G. GOLDSMITH,	}	<i>Overseers of Poor.</i>
SAM'L H. BOUTWELL,		
JOHN S. STARK,		

SUPERINTENDENT'S REPORT.

Almshouse.

Whole number of paupers in Almshouse during year,	36
Whole number of weeks board,	1578
Average weekly expense for each inmate, first deduct- ing the amount sold from the farm, the expense of the Almshouse, was	\$1.69
Whole number of tramps,	15

Remaining in Almshouse.

Between eighty and ninety,	4
Between seventy and eighty,	7
Between sixty and seventy,	4
Between fifty and sixty,	3
Between forty and fifty,	5
Between thirty and forty,	1
Between twenty and thirty,	2
Between ten and twenty,	1
Between one and ten,	1
Total,	28
Number at beginning of the year,	27
Number admitted,	9
Number discharged,	6
Number died,	2

Personal Property at the Almshouse.

Household furniture,	\$1100 00
Clothing,	500 00
Farm stock,	85 00
Farm tools,	700 00
Farm produce,	500 00
Fuel,	150 00
Provisions,	100 00
Total,	<u>\$3925 00</u>

Superintendent's Farm Account.

DR.

To cash received for	
Hay,	114 79
Labor,	862 80
Board,	122 00
Vegetables,	278 63
Milk,	1072 73
Pigs,	109 77
Eggs and Poultry,	37 25
Wood,	10 00
Empty Barrels,	9 50
Total,	<u>\$2617 47</u>

CR.

By cash paid Town Treasurer,	<u>\$2617 47</u>
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The running expenses of the Town Farm will be about the same as last year.

GEORGE L. BURNHAM, Supt.

ANDOVER, Mass., Jan. 12, 1899.

FIRE DEPARTMENT.

REPORT OF CHIEF ENGINEER.

TO THE BOARD OF SELECTMEN:

Gentlemen,—In compliance with the regulations of the Fire Department, I submit the following report:

The force consists of five Engineers, eighteen members of Steamer Co. No. 1, and Hook and Ladder Truck, and ten members of the J. P. Bradlee Co. No. 1.

The apparatus consists of one third-class steam fire engine, one two-horse hose wagon, one one-horse hose wagon, two hook and ladder trucks, and one supply wagon. There are about five thousand feet of hose in good condition.

There have been thirteen bell and three still alarms of fire the past year:

Feb. 13.	Box 24.	House, James McAvoy.	
			Loss, \$100

Mar. 7.	Box 42.	House, Bancroft Cottage.	
	Value, \$8,000	Insurance, \$6,000	Loss, \$200

May 11.	Box 24.	Craighead & Kintz shop.	
			Loss, \$350,000

May 15.	Box 52.	House, C. C. Carpenter.	
	Value, \$8,000	Insurance, \$7,000	Loss, \$175

July 4.	Box 52.	Barn, Keefe.	
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July 4.	Box 52.	Shed, John Sullivan.	
			Loss, \$10

Aug. 25.	Box 37.	Cyclone, Sarah Sawyer.	
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Sept. 12.	Box 52.	Chimney fire, Mary White.	
		Value, \$1,000	Loss, \$20

Nov. 17.	Box 52.	On roof Tyer Rubber Shop.	
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Nov. 19.	Box 24.	False alarm.		
Nov. 24.	Box 46.	House, Walter Buck.		
		Value, \$8,000	Loss, \$50	
Dec. 14.	Box 46.	Chimney, Reed house.		
		Value, \$10,000	Loss, \$25	
Dec. 24.	Box 35.	House, Prof. Forbes.		
		Value, \$11,000	Insurance, \$9,500	Loss, \$20

STILL ALARMS.

Dec. 2.	House, J. W. Barnard.
Dec. 10.	House, F. B. Jenkins.
Dec. 14.	House, S. B. Locke.

Schedule of Property.

Two Engine-houses and shed,	\$13500 00
One Steam fire-engine and apparatus,	2000 00
Three horses and harnesses,	300 00
B. F. Smith hook and ladder truck,	250 00
New hook and ladder truck,	1400 00
Two hose wagons,	800 00
Hand engine,	200 00
Total,	<u>\$18450 00</u>

I recommend an appropriation of \$2500 for the running expenses of the ensuing year.

I also recommend an appropriation of \$300 for care of fire alarm and \$4000 for stable at engine house No. 1.

Respectfully submitted,

LEWIS T. HARDY,

Chief Engineer.

Andover, Mass., Feb. 7, 1899.

POLICE DEPARTMENT.

REPORT OF CHIEF OF POLICE.

TO THE BOARD OF SELECTMEN :

Gentlemen,— In compliance with the regulation of the Police Department, I submit my annual report.

Arrests.

The whole number of arrests for the year has been fifty-seven (57) for the following causes :

Assault and Battery,	4
Assault,	2
Disturbing the peace,	5
Drunkenness,	10
For out-of-town officers,	2
Insane,	1
Keeping Un-licensed Dog,	1
Larceny,	4
Malicious Mischief,	6
Safe Keeping,	8
Tramps,	2
Trespass,	1
Vagabonds,	1
Violation of Town By-Laws,	8
Violation of Lord's Day,	2
Whole number of arrests,	— 57

Disposal of cases :

Committed to Lawrence Jail,	8
Committed to Danvers Insane Asylum,	1
Committed to State Farm,	1
Committed to Sherburn,	1
Committed to Tewksbury Almshouse,	8
Discharged at court,	8
Paid fines,	25
Prisoners turned over to out of town officers,	2

Miscellaneous.

Burglaries reported,	6
Value of property reported stolen,	\$400 00
Value of property recovered,	200 00
Value of equipments in the hands of Police,	100 00
Amount of fines paid to Town Treasurer,	215 00
Persons locked up,	38

Respectfully submitted,

GEORGE W. MEARS,

CHIEF OF POLICE.

CORNELL FUND.

Amount of Fund,		\$5000 00
Deposited in Savings Bank,		5000 00
		<hr/>
Cash on hand, 1898,	\$ 70 86	
Dividends, 1898,	241 60	
	<hr/>	\$312 46
Amount expended,	\$311 75	
Cash on hand,	71	
	<hr/>	\$312 46
		<hr/>

FRANK E. GLEASON, }
JOSEPH A. SMART, } *Trustees.*
CHARLES GREENE, }

ANDOVER, MASS., February, 1899.

CEMETERY COMMITTEE.

The Cemetery Committee herewith submit their report with statement of receipts and expenditures for the year ending January 1, 1899.

The usual work on the grounds and avenues has been done, the cemetery well kept and needed improvements made.

The land on the easterly side of Central Avenue and southerly side of Walnut Avenue has been carefully plotted by E. Worthington, C.E., thus providing a large increase of lots for future sales.

Your committee would recommend an appropriation of \$300.00, and the proceeds from the sale of lots, be made for the care of the cemetery for the coming year.

WM. S. JENKINS,
JAMES P. BUTTERFIELD,
JOHN L. SMITH,
GEORGE W. FOSTER,
F. G. HAYNES,
CHARLES GREENE,
OLIVER VENNARD,

Cemetery Committee.

ANDOVER, Feb. 14, 1899.

Report of Superintendent of Spring Grove Cemetery.

CR.

Appropriation, March 7th,	\$300 00	
Sale of lots,	391 00	
	<hr/>	\$691 50

DR.

Hardy & Cole, labor and supplies,	\$ 47 30	
Henry McLawlin, supplies,	7 30	
Smith & Manning,	7 43	
T. P. Harriman, iron work,	4 80	
George W. Foster, deeds,	12 75	
W. H. Higgins, teams,	4 00	
Francis H. Foster, surveying,	2 00	
Michael Stack, labor and team,	39 00	
Timothy Connell, labor,	140 00	
John Allicon, labor,	108 00	
Philip Allicon, labor,	38 50	
Henry Allicon, labor,	6 13	
Henry A. Hayward, gravel,	5 50	
E. Worthington, laying out lots and graves,	87 00	
O. W. Vennard, Supt. and labor,	97 00	
Total expenditure,	<hr/>	606 71
Balance unexpended,		<hr/> <hr/> \$84 79

Received from Town as per last Report,	\$11911 02
Received from Town this year,	300 00
Received from sale of lots, wood, etc.,	7253 17
	<hr/>
	\$19464 19

Less amount paid Town Treasurer, proceeds of sale of standing wood in previous years,	1137 11
	<hr/>
	\$18327 08
	<hr/> <hr/>

Cost of land,	\$3000 00	
Cost of improvements, as per last Report,	14635 58	
Cost of improvements this year,	606 71	
	<hr/>	
	\$18242 29	
Balance unexpended,	84 79	
	<hr/>	
	\$18327 08	
	<hr/>	
Lots sold as per last Report,	241	
Lots sold this year,	10	
	<hr/>	255
Whole number of single graves sold,		41
Interments as per last Report,	528	
Interments this year,	33	
Whole number of interments,	<hr/>	561

Respectfully submitted,

O. W. VENNARD,

Superintendent.

Andover, February 2, 1899.

ACCOUNT OF TAX COLLECTOR.

Abraham Marland in Account with the Town of Andover.

DR.

Amount due Town on Taxes, as by Report	
Jan. 12, 1898.	\$22958 18
Assessors' list 1898,	75061 34
Andover National Bank Tax 1898,	2062 50
	<hr/>
	\$100082 02
	<hr/> <hr/>

CR.

Amount collected,	\$71433 04	
Abated,	488 97	
Uncollected,	28160 01	
	<hr/>	
		\$100082 02
		<hr/> <hr/>
Interest on Taxes,		\$415 62

ABRAHAM MARLAND,

COLLECTOR.

Andover, January 12, 1899.

Feb. 7, 1899. Collected in addition to above since books were closed, \$2350.19.

ASSESSORS' REPORT.

We herewith submit our Annual Report.

Number of Male polls assessed,		1,327
Personal Estate,	\$1,144,093 00	
Real Estate,	3,710,584 00	
	<hr/>	<u>\$4,854,677 00</u>
Poll-tax,	\$ 2,654 00	
Tax on Personal Estate,	17,161 40	
Tax on Real Estate,	55,658 76	
	<hr/>	<u>\$75,474 16</u>

Rate of Tax per \$1000, \$15.00

Number of	
Horses assessed,	701
Cows assessed,	916
Cattle other than Cows,	177
Swine,	219
Dwellings,	1081
Acres of land,	18469

WM. G. GOLDSMITH,	}	<i>Assessors of Andover.</i>
SAMUEL H. BOUTWELL,		
JOHN S. STARK,		

TREASURER'S ACCOUNT.

Liabilities.

Water Bonds,	\$155000 00
Sewer Bonds,	80000 00
Trustees of Memorial Hall, Notes,	25000 00
Notes,	27000 00
Interest on Notes and Bonds,	2589 00
Bills payable,	700 00
	<u>\$290289 00</u>

Assets.

Cash on hand, Town Funds,	\$ 427 77	
Cash on hand, Waterworks,	2275 16	
Cash on hand, Sewer Dep't,	4296 65	
	<u></u>	\$6999 58
Uncollected Taxes, 1891,	32 50	
Uncollected Taxes, 1892,	34 50	
Uncollected Taxes, 1893,	634 49	
Uncollected Taxes, 1894,	1533 15	
Uncollected Taxes, 1895,	2322 24	
Uncollected Taxes, 1896,	4923 09	
Uncollected Taxes, 1897,	6059 76	
Uncollected Taxes, 1898,	12620 28	
	<u></u>	\$28160 01
Street Watering, 1897,	73 07	
Street Watering, 1898,	148 53	
Concreting, 1897,	21 71	
Concreting, 1898,	165 64	
Sinking Funds,	14296 01	
Commonwealth, Pauper Acct.,	615 78	
Cities and Towns, Pauper Acct.,	312 02	
Commonwealth, State Aid,	2083 50	
Commonwealth, Military Aid,	111 00	
	<u></u>	\$17827 26
		<u>\$52986 85</u>
Balance against the Town,		<u>\$237302 15</u>

George A. Parker, Treasurer, in

DR.

Balance from 1897,	\$ 722 14
Commonwealth, Corporation Tax,	7741 32
Commonwealth, Bank Tax,	2815 41
Commonwealth, Military Aid,	96 00
Commonwealth, State Aid,	1859 00
Commonwealth, Support of Paupers,	108 89
Commonwealth, Burial of Pauper,	15 00
Commonwealth, State Highway,	606 64
Andover National Bank, Notes Discounted,	99500 00
A. Marland, Collector, taxes and interest,	71848 66
A. Marland, Collector, street sprinkling,	797 40
A. Marland, Collector, concreting,	219 81
A. Marland, Collector, abatement of taxes,	484 66
A. Marland, Town Clerk, fees and licences,	25 50
Concreting, 1897,	25 20
Almshouse,	2617 47
Sale of lots, Spring Grove Cemetery,	391 50
Relief Out, Refunded,	501 99
Cities and Towns, Pauper account,	204 55
Ballardvale Rents,	150 00
Town House Rents,	120 00
Use of Town Hall,	162 90
Water Rates,	7792 40
Hay Scales,	46 00
Geo. H. Poor, Esq., Fines,	215 00
Newton P. Frye, Esq., Fines,	11 00
Andover Savings Bank, Ware Sidewalk Fund,	95 09
G. E. Johnson, Supt., books and supplies sold,	16 72
Highway Department, work for Sewer Dept.,	420 00
County Treasurer, dog fines,	30 00
Jerry Cullinane, Stone Steps,	25 00
Peddler's License,	12 00

\$199677 25

Account with the Town of Andover.

CR.

Cash paid Selectmen's Orders:

Schools,	\$20998 96
Schoolhouses,	2199 57
Books and Supplies,	1499 31
Printing and Stationery,	876 44
Spring Grove Cemetery,	606 71
Insurance,	108 05
Interest,	10557 27
Street Lighting,	4078 37
Sidewalks,	1752 72
Removing Snow,	4245 37
Horses and Drivers,	2985 58
Highways,	8699 15
Fire Department,	2500 00
Town House,	935 27
Town Officers,	4304 00
Ware Sidewalk Fund, repairing Main street walk,	95 05
State Tax,	3720 30
Miscellaneous,	1356 32
Notes,	93000 00
County Tax,	4353 35
Abatement of Taxes,	540 66
Hay Scales,	37 13
Fire Alarm,	278 70
Dump,	30 00
Sinking Fund,	875 00
Park,	1199 45
State Highway,	600 14
250th Anniversary,	665 41
Ballardvale Engine House,	498 67
Crescent Park Sidewalk,	202 08
Maintenance,	4200 00
Memorial Day,	200 00
Redemption of Bonds,	5000 00

Overseers' Orders:

Almshouse Repairs,	658 23
Almshouse Expenses,	5269 81
Relief Out,	7816 91
Military Aid,	222 00
State Aid,	1775 50
State Aid, (Spanish War),	308 00

Cash on Hand,

427 77

\$199677 25

Waterworks.

Dr.

Balance, January, 1898,	\$2667 39
Town, Maintenance,	4200 00
Town, Interest,	6300 00
Interest on Bonds sold,	2 79
Bonds sold,	5000 00
Premium on Bonds,	500 00
Town, Redemption of Bonds,	5000 00
Service-pipe,	2375 67
	<u>\$26045 85</u>

Cr.

Orders paid,	\$9830 69
Interest on Bonds,	6440 00
Bonds Redeemed, (Nos. 36, 40, 41, 42, 43, 44, 45,)	7000 00
Sinking Fund,	500 00
Cash on hand,	2275 16
	<u><u>\$26045 85</u></u>

Sewer Department.

Dr.

Bonds sold,	\$80000 00
Premium on bonds,	6664 00
Interest on Bonds sold,	277 33
Interest on Deposits,	419 29
Interest, Town,	903 38
Sewer Connections,	2540 01
Supplies sold,	135 73
	<u>\$90939 74</u>

Cr.

Orders paid,	\$78289 64
Sinking Fund,	6664 00
Interest on Bonds,	1580 00
Rebate on Sewer Connections,	109 45
Cash on hand,	4296 65
	<u><u>\$90939 74</u></u>

Sinking Funds. Water Loan.

DR.

Balance Jan., 1898,	\$5721 25
Received from Town,	675 00
Premium on Bonds,	500 00
Interest,	253 10
	<hr/>
	\$7149 35

CR.

Deposited in Andover Savings Bank,	\$2032 57
Deposited in Essex Savings Bank,	888 21
Deposited in Central Savings Bank,	238 82
Deposited in Haverhill Savings Bank,	988 94
Deposited in City Institution for Savings,	820 55
Deposited in Broadway Savings Bank,	1128 19
Deposited in Lowell Five Cents Savings Bank,	315 28
Deposited in Lawrence Savings Bank,	231 79
Deposited in Mechanics Savings Bank,	505 00
	<hr/>
	\$7149 35

Sewer Loan.

DR.

Premium on Bonds,	\$6664 00
Interest on bonds,	120 00
	<hr/>
	\$6784 00

CR.

Six Andover Sewer Bonds,	\$6000 00
Premium on Bonds,	210 00
Interest on Bonds,	25 34
Deposited in Salem Five Cents Savings Bank,	548 66
	<hr/>
	\$6784 00

Memorial Hall Notes.

DR.

Balance Jan., 1898,	\$153 00	
Received from Town,	200 00	
Interest,	10 12	
	<hr/>	\$363 12

CR.

Deposited in Lowell Institution for Savings,	<hr/>	\$363 12
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Richardson Fund, Frye Village School.

DR.

Balance, Jan., 1898,	\$1088 73	
Interest,	43 96	
	<hr/>	\$1132 69

CR.

Deposited in Andover Savings Bank,	<hr/>	\$1132 69
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Spring Grove Cemetery Fund.

Balance, Jan., 1898,	\$572 22	
Interest,	23 10	
	<hr/>	\$595 32

CR.

Deposited in Lawrence Savings Bank,	<hr/>	\$595 32
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Edward Taylor Fund.

Amount deposited in Andover Savings Bank,	<hr/>	\$117 27
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Trust Funds for Care of Cemetery Lots.

DR.

Balance, Jan., 1898,	\$2083 06
Interest, 1898,	75 38
Additional deposits, 1898,	350 00
	<hr/> \$2508 44

CR.

Paid for care of lots, 1898,	99 50
Deposited Andover Savings Bank,	2408 94
	<hr/> \$2508 41
	<hr/>

The business of the Town having grown to such large proportions I would recommend the following changes :

That all bills be audited *before* being paid, and that all bills be sent in by the third day of each month and paid on the tenth.

GEO. A. PARKER,

TREASURER.

ANDOVER, Jan. 17, 1899.

AUDITORS' CERTIFICATE.

We have examined the accounts of the several Town Officers and find them correctly cast and satisfactory vouchers for all payments made.

The Town Treasurer has on deposit in the Andover National Bank and cash on hand \$427.77 and \$2275.16 to the credit of the water loan, and \$4296.65 to the credit of the sewer loan.

GEORGE A. HIGGINS,
CHARLES B. JENKINS,
W. BYRON MORSE.

AUDITORS.

REPORT OF PARK COMMISSIONERS.

The park commissioners herewith present their second annual report, together with an account of their expenditures, by which it appears that out of the \$1200 appropriated to the purposes of that commission in 1898 there remains on hand fifty-five cents.

The work for the past year has consisted largely in improvements at Carmel Woods. The roadway has been broadened so that it is wide enough for teams to pass in either direction, and sharp grades have been lowered so far as it has been possible to lower them. About one hundred cords of wood have been cut by the commissioners and turned over to the town authorities, and since November, 1898, about thirty cords of wood have been cut on shares, and one-half of this has been turned over to the town authorities and awaits their disposal. A pathway called the Mithcella Path has been made at the eastern side of the park beginning at the south entrance; it follows the general line of the park enclosure for about halfway and then turns to the northwest toward The Outlook, thus opening up a very interesting section of the park for foot travel. Two permanent benches have been provided as seats. In the last of August and early September all of the underbrush was carefully mowed down and the whole surface raked over and leaves and branches burned. In improving the road at the south entrance of the park the commissioners found that it would cost about \$150 to change the grade about the gravel bank, and they decided it was better to buy the land formerly used as a

temporary entrance, and accordingly paid Mr. John H. Flint \$100 for the same, thereby saving the difference in money and providing a much more satisfactory entrance to the park.

Some attention has been paid to the trimming of trees upon the highways, and state nails have been driven in a large number of trees on streets in the outer sections of the town, thereby preventing them from being cut down, except under severe penalty, and the beauty of the roadsides from being impaired.

The commissioners this year ask for an appropriation of \$500. With this they purpose to continue the driving of state nails ; also the setting out of trees along certain highways in the town ; the trimming of existing trees ; the purchase of a considerable number of trees and shrubs to be set out in Carmel Woods ; a further thinning out of the trees at Carmel Woods, together with the cutting off of dead branches, the provision of more seats, and a sloping off of the gravel bank near the south entrance, and a general improvement of that part of the park by setting out trees and shrubs. A portion of this money will also be needed for cutting down bushes in the month of August and general clearing up of the surface of the park both in the early spring and later in the season. The commissioners feel that with this amount of money expended this year in the park, the amount needed hereafter will be considerably reduced.

The commissioners urge upon the citizens a consideration of two matters which they deem of vital importance to the future interests of the town. First, the acquisition of the three acres or more of land lying between the land formerly of J. M. Bradley and Carmel Woods, which the town, at the March meeting of 1898, refused to purchase. The acquisition of this land is recommended as providing a suitable entrance to the park, as extending its area, and as offering some of the best views obtainable from the park or its vicinity. Second, Richardson

Field is in danger of being lost to the town unless its immediate purchase is brought about. It can be bought now much cheaper than after house lots have been sold, and when once purchased it is not imperative that anything pertaining to its improvement should be done immediately.

ALBERT POOR,	}	<i>Park</i> <i>Commissioners.</i>
FRANK S. MILLS,		
CHARLES L. CARTER,		

Park Commissioners' Account.

Received,		\$1200 00
Work on carriage road in Carmel woods,	\$433 00	
Land for entrance to Carmel woods,	100 00	
Driving state nails,	3 27	
Trimming trees on High and Elm Streets,	16 04	
Fence near entrance to Carmel woods,	23 00	
Seats and signs in Carmel woods,	22 86	
Drain-pipe for carriage road in Carmel woods,	10 13	
Tools and other supplies,	7 17	
Repairing tools,	1 65	
Removing trees and underbrush and for other work in Carmel woods,	582 33	
	<hr/>	\$1199 45
Balance,		<hr/> <hr/> 55

PUNCHARD FREE SCHOOL,

The Trustees of the Punchard Free School submit to the Town this account showing their Receipts and Expenditures for the year 1898, and the Condition of the Fund at the close of the year.

TREASURER'S REPORT FOR THE YEAR 1898.

PRINCIPAL FUND.

Amount of the Fund January 1, 1898,		\$75005 00
The same remains unchanged.		
It is invested as follows :		
Real Estate Mortgages	\$74375 00	
Cash in Trust Co. awaiting investment,	575 00	
Deposit in Savings Bank,	55 00	
	<hr/>	<u>\$75005 00</u>

INCOME, DR.

To balance on hand January 1, 1898,	\$797 86	
To interest collected on mortgages,	3959 20	
To interest on fund in Trust Co. deposits,	27 83	
To book assessments paid by pupils,	312 50	
To tuition paid by one non-resident,	15 00	
	<hr/>	<u>\$5112 39</u>

INCOME, CR.

By payments as per statement,	\$4544 55	
By balance on hand December 31, 1898,	567 84	
	<hr/>	<u>\$5112 39</u>

STATEMENT OF EXPENSES.

Frank O. Baldwin, Principal,	\$1829 64
Mary E. Dern, Assistant,	662 00
Jean S. Pond, Assistant,	632 00
Charlotte Norris, Assistant,	432 00
Eric A. Starbuck, Assistant,	236 65
Frederic Palmer, Chairman Visiting Committee,	100 00
Geo. H. Poor, Treasurer,	200 00
<i>Amount carried forward,</i>	<u>\$4092 29</u>

<i>Amount brought forward,</i>	\$4092 29
American Express Co.,	1 15
Andover Press, Printing,	12 65
F. J. Barnard, Book-binding,	34 58
Arthur Bliss, chemicals,	8 55
C. C. Bourne, tuning piano,	2 50
G. C. Cannon, filling diplomas,	4 50
G. A. Higgins & Co., books and supplies,	332 59
L. E. Knott Apparatus Co., supplies,	49 68
Postage and Revenue Stamps,	3 16
Tuttle's Express,	2 90
Total expenses,	<u>\$4544 55</u>

GEO. H. POOR,

TREASURER.

January 2, 1899.

Examined and approved.

GEORGE A. PARKER,

M. E. GUTTERSON,

AUDITORS.

The trustees take great pleasure in acknowledging a gift of ten shares of the preferred stock of the Union Pacific Railroad Company from our townsman Mr. Jacob W. Barnard who gives it as a fund to provide prizes for excellence in English composition and speaking in the school. It is believed that the fund will yield forty dollars a year. Mr. Barnard requests that it be distributed in three prizes of twenty, twelve and eight dollars each to those pupils who may win the same at a public competition in each year.

FREDERIC PALMER, HORACE H. TYER,
 FRANK R. SHIPMAN, GEORGE H. POOR,
 GEORGE A. PARKER, MYRON E. GUTTERSON,
 SAM'L H. BOUTWELL,

TRUSTEES.

DEPARTMENT RECOMMENDATIONS

The following is a list of appropriations, a part of these are the amounts recommended by the several departments:

Schools.	\$21000 00
School-Houses,	2000 00
School-Books and Supplies,	1600 00
Repairs on Highways and Bridges,	4000 00
Macadamized Roads,	4000 00
Sidewalks,	1500 00
Removing Snow,	3500 00
Town Officers,	5000 00
Town House,	1500 00
Waterworks, Maintenance,	4200 00
Sewers, Maintenance,	1500 00
Sinking Fund,	1050 00
Fire Department,	2500 00
Stable and Repairs,	4000 00
Fire Alarm, Maintenance,	300 00
Horses and Drivers,	3000 00
Street Lighting,	4150 00
Printing and Stationery,	1000 00
Spring Grove Cemetery,	300 00
Park Commission,	500 00
Memorial Day,	200 00
State Aid,	1600 00
Military Aid,	300 00
State Aid, War with Spain,	600 00
Expenses of Almshouse,	4000 00
Relief out of Almshouse,	6000 00
Repairs on Almshouse,	300 00
State Tax,	5000 00
County Tax,	5000 00
Abatement of Taxes,	1000 00
Interest on Notes, Funds, and Bonds,	12500 00
Insurance,	600 00
Hay Scales,	50 00
Miscellaneous,	1500 00
Redemption of Bonds, (Vote of 1889,)	5000 00
Total,	\$110250 00

Respectfully submitted,

WM. G. GOLDSMITH,	} <i>Selectmen</i>
SAMUEL H. BOUTWELL,	
JOHN S. STARK,	
	<i>of</i>
	<i>Andover.</i>

TOWN WARRANT.

ESSEX, SS: To either of the Constables of the Town of Andover. GREETING :

In the name of the Commonwealth of Massachusetts you are hereby directed to notify and warn the inhabitants of the town of Andover qualified to vote in town affairs, to meet and assemble in the Town House, in said Andover, on Monday, the sixth day of March, 1899, at eight o'clock, A.M., to act on the following articles :

Article 1st. — To choose a Moderator to preside at said meeting.

Article 2nd.—To choose Town Clerk, Treasurer, Collector of Taxes, two members of the Board of Selectmen, Assessors and Overseers of the Poor for one year, one member of the Board of Health for three years, three members of the School Committee for three years, one Trustee of the Memorial Hall for seven years, one Trustee of the Cornell Fund for three years, one Park Commissioner for three years, Highway Surveyor, one Water Commissioner for three years, one Sewer Commissioner for three years, or, if the meeting so decide, five members of a Board of Public Works, one member of said Board of Public Works for one year, two members of said Board for two years; and two members of said Board for three years, one or more Auditors of Accounts, Constables, Fence Viewers, Field Drivers, Surveyors of Lumber, a pound keeper, Fire Wards, and any other officers the town may determine to choose.

Article 3rd.—To take action on the following question :
“Shall licenses be granted for the sale of Intoxicating Liquors in this town ?”.

Article 4th.—To determine what sums of money shall be appropriated for Schools, School-houses, School-books and Supplies, Highways and Bridges, Sidewalks, Removing Snow, Horses and Drivers, Town Officers, Town House, Hay Scales, Fire Department, Insurance, Street Lighting, Printing and Stationery, Spring Grove Cemetery, Memorial Day, State and Military Aid, Water Works, Sewers, Interest on Bonds, Funds and Notes, State and County Taxes, Abatement of Taxes, Almshouse Expenses, Relief out of Almshouse, Repairs on Almshouse, and other town charges and expenses.

Article 5th.—To see if the Town will vote to purchase the land known as “Richardson Lot” for use as a public park, and arrange for the payment of the same, on petition of John N. Cole and others.

Article 6th.—To see if the Town will accept the street as laid out by the Selectmen from Main Street next south of the Town House to Bartlet Street, and, if necessary, appropriate a sum of money for its construction, on petition of J. P. Wakefield and others.

Article 7th.—To see if the Town will appropriate a sum of money sufficient to widen Chester Street in Ballardvale, beginning at a point on Lowell Street and running south-westerly about six hundred feet, on petition of William Galvin and others.

Article 8th.—To see if the Town will accept the street as laid out by the Selectmen from a point on Summer Street near the house of Mrs. Burns to a point on East Chestnut Street, near the house of Mrs. May, and, if necessary, appropriate a sum of money for its construction, on petition of J. Warren Berry and others.

Article 9th.—To see if the Town will adopt the provisions of Chapter 83 of the Acts of 1899 to consolidate its Board of Water Commissioners and Board of Sewer Commissioners in

a Board of Public Works to consist of five members, and if so, to elect one member of said Board of Public Works for one year, two members of said Board for two years and two members of said Board for three years.

Article 10th.—To see if the Town will elect Commissioners of its Sinking Funds.

Article 11th.—To see if the town will appropriate a sum of money for an addition to Engine House No. 1, for a stable on petition of the Engineers.

Article 12th.—To see if the Town will appropriate Five Hundred Dollars for the general use of the Park Commissioners for the ensuing year.

Article 13th.—To see if the Town will appropriate One Thousand Dollars to purchase of John H. Flint a new entrance to Carmel Woods from Walnut Avenue, as recommended by the Park Commissioners.

Article 14th.—To see if the Town will establish and locate a box of the Fire Alarm at the corner of Main Street and Punchard Avenue in said Town and appropriate One Hundred Dollars therefor, on petition of William Odlin and others.

Article 15th.—To see if the Town will appropriate a sum of money for the care of the Public Dump.

Article 16th.—To see if the Town will authorize the moving of the North Schoolhouse to some point on the River Road near the Shattuck Farm in order that the North and Abbott Schools may be consolidated, and appropriate a sum of money necessary therefor, as recommended by the School Committee.

Article 17th.—To see if the Town will authorize the issue of Thirty Thousand Dollars of Sewer Bonds for construction purposes, on petition of the Sewer Commissioners.

Article 18th.—To see if the Town will vote to purchase a roller to use on the roads, and appropriate a sum of money therefor.

Article 19th.—To act on the reports of Town Officers.

Article 20th.—To see if the Town will revise and accept the list of names of Jurors prepared and posted by the Selectmen.

Article 21st.—To fix the pay of the Firemen for the ensuing year.

Article 22nd.—To determine the method of collecting the taxes for the ensuing year.

Article 23rd.—To determine the disposition of unexpended appropriations.

Article 24th.—To authorize the Treasurer to hire money for the use of the Town in anticipation of Taxes, upon the approval of the Selectmen.

Article 25th.—To determine the amount of money to be raised by taxation the ensuing year.

Article 26th.—To transact any other business that may legally come before the meeting.

Hereof fail not, and make due return of this Warrant with your doings thereon, to the Town Clerk at the time and place of meeting.

Given under our hands at Andover, this eighteenth day of February, in the year one thousand eight hundred and ninety-nine.

WM. G. GOLDSMITH, SAMUEL H. BOUTWELL, JOHN S. STARK,	}	<i>Selectmen of Andover.</i>
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MEMORIAL HALL.

TWENTY-SEVENTH ANNUAL REPORT BOARD OF TRUSTEES.

There is, this year, very little of special interest to report with regard to the affairs of Memorial Hall. Mr. Frederic S. Boutwell was, last Spring, elected trustee to fill the vacancy occasioned by the resignation from the Board of Mr. George H. Torr.

The new printed catalogue has gone into circulation, and copies of it can always be obtained at the Library for the nominal sum of fifty cents each.

For further details we refer the reader to the full reports of the Treasurer and of the Librarian.

Respectfully submitted :

JOSEPH W. SMITH,
FRANCIS H. JOHNSON,
E. KENDALL JENKINS,
JOSEPH A. SMART,
FREDERIC S. BOUTWELL,
GEO. W. FOSTER,
C. C. CARPENTER,

TRUSTEES.

ANDOVER, Feb. 1, 1899.

Frederic S. Boutwell, Treasurer of Trustees of Memorial RECEIPTS.

Feb. 1, 1898.	To cash balance from last year,	\$3628 71
Apr. 1, "	Interest on mortgage,	125 00
May 4, "	Dividend from T. & M. Insurance Co.,	22 50
June 6, "	Town Treasurer, interest on town notes,	1400 00
Oct. 3, "	Interest on mortgage,	125 00
Jan. 3, 1899.	Ballard Holt, fines and rents,	50 52
" 3, "	" " sale of catalogues,	31 00
" 3, "	" " sale of old books,	2 65
" 24, "	Interest from Savings Banks,	435 56

\$5820 94

FUNDS		INVESTED AS FOLLOWS	
Permanent Fund,	\$20000 00	Town Note,	\$20000 00
John Byers Fund,	10000 00	Town Note,	5000 00
John Cornell Fund, (per.),	5000 00	Mortgage,	5000 00
John Cornell Fund,	5000 00	Savings Banks,	10400 00
Edward Taylor Fund,	300 00	Cash,	1949 82
W. C. T. U. Fund,	100 00		
Cash,	1949 82		
	<hr/>		<hr/>
	\$42349 82		\$42349 82

Hall, in account with the Town of Andover.

EXPENDITURES.

Ballard Holt, salary,	\$800 00
James O. Bradshaw, services,	84 00
Andover Electric Co., light,	137 16
Little, Brown & Co., books,	344 94
Balch Bros., books,	36 00
D. S. Brownell, book,	2 50
Blanchard & Co., book,	1 50
O. P. Chase, papers,	29 15
Lawrence Publishing Co., book,	1 25
Francis H. Johnson, book,	18 05
M. A. Clemons, book,	15 00
New England Homestead,	3 00
Boston Book-binding Co., binding,	41 32
F. J. Barnard & Co., binding,	72 58
J. A. Smart, insurance,	193 50
D. Donovan & Son, work,	3 75
George E. Pike, work,	50 25
Charles P. Rea, work,	3 00
Hardy & Cole, work,	41 01
E. C. Pike, work,	2 03
H. F. Chase, work,	1 00
John McCarthy, work,	10 00
Bond & Wiggin, work on catalogue,	300 00
Andover Press, printing catalogue,	1396 08
Andover Press, supplies,	14 90
George A. Higgins & Co., supplies,	2 50
Henry A. McLawlin, supplies,	1 00
Ballard Holt, sundries,	53 49
Harriet W. Carter, services,	12 00
George W. Chandler, coal and wood,	156 00
George Saunders, work,	8 16
Fred C. Way, carrier,	20 00
Sprinkling street, tax, Town of Andover,	8 50
Tuttle's Express,	5 50
Postage and Revenue Stamps,	2 00
	<hr/>
	\$3871 12
Cash on hand to balance,	1949 82
	<hr/>
	\$5820 94
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ANDOVER, MASS., JAN. 30, 1899.

This certifies that we have examined the above account and find the same correctly cast and properly vouched.

E. KENDALL JENKINS,
J. A. SMART.

REPORT OF LIBRARIAN.

To the Board of Trustees of the Memorial Hall Library :

GENTLEMEN : — The Librarian's report for the year ending December 31, 1898, is herewith respectfully presented :

Statistics.

Volumes in the Library, January 1, 1898,	14,491
Volumes purchased,	345
Volumes presented,	70
Volumes of periodicals bound,	59
	<hr/> 14,965
Volumes withdrawn,	85
	<hr/>
Volumes in the Library, December 31, 1898,	14,880
Pamphlets in the Library, January 1, 1898,	7,109
Pamphlets presented in 1898,	150
	<hr/>
Pamphlets in the Library, December 31, 1898,	7,267
Number of days the Library was open,	306
Number of volumes delivered :	
General delivery,	17,609
Abbott District,	63
Bailey District,	172
North District,	62
Osgood District,	193
	<hr/>
	18,099
Largest daily issue,	151
Largest weekly issue,	485
Average daily issue,	59
Per-centage of fiction and juvenile circulated,	79
Notices sent to delinquent borrowers,	947
New names registered,	177
Total number of names registered,	6512
Number of books covered anew,	737
Number of volumes rebound,	223
Average daily attendance in Reading-room,	62
Volumes delivered for use in Reading-room,	828
Income from fines,	\$43 90
Income from use of books,	6 62
Income from sale of catalogues, (62)	31 00

List of Donors.

	Vols.	Pamps.	Pap's
Abbot Courant,		1	
Alden, John, miscellaneous papers,			
Andover, Town of,	7		
Bancroft, Rev. C. F. P.	2	1	
Barnes, W. A., Boston, Mass.,		1	
Benton, J. H., Boston, Mass.,		1	
Blinn, H. C., Shaker Village, N. H.,		12	
Cambridge Public Library,		1	
Carpenter, Rev. C. C.		1	
Chase, W. S., Boston, Mass.,		1	
Chelsea, City of,	1		
Concord Public Library,		1	
Downs, Mrs. Annie S.,	1		
Draper, W. F.,	2	1	
Enoch Pratt Free Library, Baltimore, Md.,		1	
Fall River Public Library,		2	
Forbes Library, Northampton, Mass.,		1	
French, J. D. W., Boston, Mass.,	1	35	
Indian Rights Association,		2	
Jenkins, E. K.		1	
Knox, Hon. W. S., Lawrence, Mass.	3		
Lawrence Public Library,		5	
Massachusetts, Commonwealth of,	23	2	
Massachusetts Institute of Technology,		1	
Newbury Library, Chicago, Ill.,		2	
Newton Free Library,		1	
Noyes, H. P.,	1		
Pratt, F. S., Boston, Mass.,	1		
Richards, L. S., Marshfield Hills, Mass.,	2		
Salem Public Library,	8		
Society for the Prevention of Cruelty to Animals,			12
Somerville Public Library,		1	
Stevens, Hon. Moses T., North Andover, Mass.,	2		
Taylor, Mrs. John P.,	1		
United States,	15	83	
Whitney, Charles C., Marshall, Minn.,			52
Winthrop Public Library,		1	
	<hr/> 70	<hr/> 158	<hr/> 67

Other Donations.

Boynton, Miss Clara R. Bayonet and piece of stockade from Andersonville prison.

Crowninshield, J. C., estate of. One bridle, two spurrs, two epaulets, one bronze badge and one sword.

During the year two numbers of the Andover Townsman, one each of Boston Advertiser, Boston Traveller, Good Words, Harper's Bazar, Harper's Magazine, Harper's Round Table and Review of Reviews have been taken from the reading-room and not returned. Two volumes are missing.

BALLARD HOLT,

LIBRARIAN.

ANDOVER, Jan. 5, 1899.

MEMORIAL HALL LIBRARY

LIST OF ACCESSIONS

Bulletin, No. 18, 1898.

LIST OF ACCESSIONS, 1898.

A.

ALLEN, W. B. Navy blue: a story of cadet life in the naval academy at Annapolis.	A 432 n
AMERICAN Naturalist. Vol. 31, 1897.	505.A 512
ANDOVER, Mass. *Proceedings at the celebration of the two hundred and fiftieth anniversary of the incorporation of the town, May 20, 1896.	478.45 A 543
Phillips Academy. The '98 class book, senior class of Phillips Andover Academy.	920.A 552
* ANDOVER Townsman. Vol. 10, 1897.	071.A 552
ATHERTON, Gertrude. The Californians.	A 869 ca
ATLANTIC Monthly. Vol. 80-81. 1897-98.	051.A 881

B.

BANGS, J. K. Ghosts I have met and some others.	B 225 gh
BARLOW, Jane. Irish idylls.	B 254 ir
BARROWS, J. H. A world-pilgrimage.	910.B 27
BATES, Katherine L. American literature.	810.4 B 317
BATTERSHALL, W. W. Interpretation of life and re- ligion.	230.B 326
BAYLY, Ada E. (Edna Lyall). Hope the hermit, a novel.	B 345 ho
BECKE, Louis. Rodman the boatsteerer, and other stories.	B 383 ro
Wild life in southern seas.	B 383 wi
RELL, Lillian. The instinct of step-fatherhood.	B 415 in
BELL, Mackenzie. Christina Rossetti: a biographical and critical study.	92.R 736 B
Pictures of travel and other poems.	811.B 41
BELLAMY, Edward. The blindman's world, and other stories.	B 416 bl
BELOW, Ida C. Eugene Field in his home.	92.F 457 B
BESANT, Walter. The changeling: a novel.	B 466 ch
* BIRDS: a monthly serial. Vol. 2-3, 1897.	051.B 53
BISHOP, Mrs. Isabella L. B. Korea and her neighbors.	915.19 B 54
BLACK, William. Wild Eelin.	B 563 wi
BLACKWOOD'S Edinburgh Magazine. Vol. 162-163. 1897-98.	052.B 56
BODLEY, J. E. C. France. 2 vols.	944.04 B 63

- BOSTON, Mass. * The directory, 1898. 917.446 B 97
- BOUGET, Paul. Antigone, and other portraits of women. B 664 an
- BOUTELL, L. H. The life of Roger Sherman. 92.S 553 B
- BRADFORD, William. * History of Plymouth plantation,
from the original manuscript. 974.48 B 72 M
- BRAILSFORD, H. N. The broom of the war god. B 733 br
- BRISCOE, M. S. Jimty and others. B 778 ji
- BROOKS, Noah. Story of Marco Polo. 915. P 76 B
- BROWNE, T. A. (Rolf Boldewood). Plain living: a bush
idyll. B 817 pl
- BRYCE, James. William Ewart Gladstone: his charac-
teristics as a man and statesman. 92.G 458 B
- BUNKER Hill monument association. Proceedings at the
annual meeting, June 17, 1898. 973.3 B 88 p
- BURNHAM, Mrs. Clara L. R. A great love. B 937 gr
- BURTON, Isabel, Lady. Romance of Isabel, Lady Bur-
ton: story of her life, told in part by herself
and part by W. H. Wilkins. 2v. 92.B 956 W
- BUSCH, Moritz. Bismarck, some secret pages of his his-
tory. 2v. 92.B 545 Bw
- BUTLER, N. M. The meaning of education, and other
essays and addresses. 370.B 975

C.

- CAHAN, Abraham. Imported bridegroom, and other
stories of the New York Ghetto. C 117 im
- CAMPBELL, W. D. Beyond the border. C 158 be
- CARPENTER, G. R., *editor*. American prose: selection,
with critical introductions by various
writers. 810.4 C 22
- CASTLE, Agnes and Egerton. The pride of Jennico:
being a memoir of Captain Bazil Jennico. C 267 pr
- CENTURY. Vol. 55-56. 1898. 051.C 33
- CHAMBERLAIN, Mellen. John Adams the statesman of
the American revolution. 92.A 214 C
- CHAMBERLAIN, W. L. The parthenon, and other poems. 811.4 C 352
- CHAPIN, Anna A. Wonder tales from Wagner, told for
young people. C 365 wo
- CHAPMAN, J. J. Emerson, and other essays. 820.4 C 36
- CHAMBERS, R. W. A king and a few dukes. C 353 ki
- The maker of moons. C 353 ma
- CHANNING, Edward. A students' history of the United
States. 973.C 36

CHURCH, John. Church's musical visitor. Vol. 26, 1897.	780.5 C 47
CHURCHILL, W. L. S. The story of the Malakand field force : an episode of frontier life. . . .	942.C 478
CLARKE, R. F. The science of law and law making. . . .	340.C 55
COCHRANE, Robert. Four hundred animal stories. . . .	590.4 C 64 fo
* CONGRESSIONAL record. 19 vols.	328.73 r
CONTEMPORARY Review. Vol. 72-73. 1897-98. . . .	072.C 76
CORNHILL Magazine. New series. Vol. 3-4. 1897-98.	052.C 81
COSMOPOLITAN. Vol. 24-25. 1898.	051.C 82
CRANE, Stephen. The open boat, and other stories of adventure.	C 852 op
CROCKETT, S. R. The red axe.	C 875 re
The standard bearer.	C 875 st
CROUCH, A. P. Senorita Montenar.	C 8862 se
CROWNINSHIELD, Mrs. Mary B. Latitude 19°: a romance of the West Indies, 1820. . . .	C 887 la
Where the trade wind blows: West Indian tales.	C 887 wh
CURTIS, G. W. Early letters of George William Curtis to John S. Dwight; Brook farm and Con- cord: edited by G. W. Cooke.	92.C 945
CUSHING, Marshall. The story of our Post Office: the greatest government department in all its phases.	353.4 C 95

D.

DANA, C. A. Recollections of the civil war; with the leaders at Washington and in the field in the sixties.	92.D 191
DAVIS, R. H. King's jackal.	D 298 ki
DOLE, N. H. Joseph Jefferson at home.	92.J 353 D
DORR, Mrs. J. C. R. In kings' houses: a romance of the days of Queen Anne.	D 737 in
DOWNES, Mrs. Annie S. * Poem: Historic Andover, 1646-1896.	811.48 D 75
DOYLE, A. C. A desert drama: being the tragedy of the Korosko.	D 775 de
DOUGLAS, Amanda M. A little girl in old Boston. . . .	D 746 li
DROMGOOLE, Miss W. A. A moonshiner's son. . . .	D 833 mo
The valley path.	D 833 v
DRUMMOND, Henry. The ideal life: addresses hitherto unpublished.	230.D 84
DUNCAN, Sara J. Voyage of consolation. Sequel to "an American girl in London."	914.21 D 91

E.

EARLE, Mrs. Alice M. In old Narragansett: romances and realities.	E 123 io
EGGLESTON, G. C. Southern soldier stories.	E 295 so
ENGLISH Illustrated Magazine. Vol. 17-19. 1897-98.	052.E 58
* ESSEX Antiquarian. Vol. 1, 1897.	929.E 78

F.

FARMER, J. E. The Grenadier: a story of the Empire.	F 223 gr
FARRAR, F. W. Allegories.	244 F 24
Great books.	012.F 24
FAKRRAR, F. W., and others. *The cathedrals of Eng- land. 2 vol.	283 F 24 c
FERNALD, J. C. The Spaniard in history.	946 F 392
FESSENDEN, Laura D. A colonial dame: a pen picture of colonial days and ways.	F 428 co
FISHER, S. G. The true Benjamin Franklin.	92.F 854 F
FLINT, Grover. Marching with Gomez: a war corres- pondent's field note-book kept during four months with the Cuban army.	917.291 F 64
FORD, A. E. Story of the fifteenth regiment Massachu- setts Volunteer Infantry.	973.74 F 75
FORD, P. L. Tattle-tales of cupid.	F 756 ta
FORUM. Vol. 24-25. 1898.	051.F 77
FRANCIS, M. E. The duenna of genius.	F 845 du
FRANCKE, Kuno. Glimpses of modern German authors.	830.8 F 85
FRANKLIN, S. R. Memories of a rear-admiral who has served for more than half a century in the navy of the United States.	92.F 857
FREDERIC, Harold. The deserter, and other stories.	F 874 de
FRENCH, Alice (Octave Thanet). The heart of toil.	F 885 he
FULLER, Anna. One of the pilgrims: a bank story.	F 952 on
FULLER, H. B. From the other side: stories of trans- atlantic travel.	F 954 fr

G.

GALE, James. Korean sketches.	915.19 G 13
GARLAND, Hamlin. Ulysses S.*Grant, his life and char- acter.	92.G 766 G
GISSING, George. The whirlpool.	G 445 wh
GOEPF, P. H. Symphonies and their meaning.	780.G 55

Goss, W. L.	In the navy; or father against son.	G 694 in
GOULD, S. B.	Bladys Stewponey: a novel.	G 735 bl
	Domitia.	G 735 do
GREGORY, Eliot.	Wordly ways and byways.	G 868 wo

H.

HALL, C. W.	Cartagena, or the lost brigade: a story of heroism in the British war with Spain, 1740-42.	H 145 ca
HALL, Ruth.	In the brave days of old.	H 147 in
HARPER's	New Monthly Magazine. Vol. 95-96. 1897-98.	051.H 23
HARPER's	Round Table. Vol. 18. 1897.	051.H 23 r
HARRIS, J. C.	Tales of the home folks in peace and war.	H 243 t
HARRIS, Mrs. Miriam C.	A corner of Spain.	914.6 H 24 c
HARRISON, Mrs. Constance C.	Good Americans.	H 246 go
HARTE, F. B.	Stories in light and shadow.	H 256 sr
	Tales of trail and town.	H 256 ta
HATTON, Joseph.	The vicar.	H 286 vi
HAWKINS, A. H. (Anthony Hope).	Rupert of Hentzan: sequel to the "Prisoner of Zenda."	H 313 ru
	Simon Dale.	H 313 si
HENTY, G. A.	At Aboukir and Acre.	H 395 ab
	Both sides of the border.	H 395 bo
	Under Wellington's command.	H 395 un
HENTY, G. A., <i>editor</i> .	Yule logs.	H 395 yu
HEWLETT, Maursee.	The forest lovers: a romance.	H 495 fo
HICHENS, R. S.	The londoners.	H 527 lo
HIGGINSON, T. W.	Cheerful yesterdays.	92.H 537
	Tales of the enchanted islands of the Atlantic.	398.2 H 53
HOWE, Mrs. Julia W.	From sunset ridge: poems old and new.	811.H 83 f
HOWELLS, W. D.	Stories of Ohio.	977.1 H 838
	Story of a play: a novel.	H 838 st
HUBBARD, Elbert.	Little journeys to the homes of American statesmen.	914.2 H 86 l
HUGHES, Rupert.	The Lakerim athletic club.	H 8735 la
HUTTON, Lawrence.	A boy I knew and four dogs.	92.H 977 b

I.

* Illustrated American.	Vol. 22-23. 1897-98.	051.I 29
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PEMBERTON, Max.	Kronstadt: a novel.	P 367 kr
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	The red-bridge neighborhood: a novel.	P 785 re
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	Margaret Montfort.	R 393 m
RICHARDSON, J. D.	* A compliation of the messages and papers of the Presidents, 1789-1897. Vol. 6-8.	353.03 R 39
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ROBERTSON, Morgan. Spun-yarn: sea stories. . . .	R 549 sp
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TOWN OF ANDOVER

TENTH

ANNUAL REPORT

OF THE

WATER COMMISSIONERS

FOR THE FINANCIAL YEAR ENDING

JANUARY 12, 1899

ANDOVER, MASS.
THE ANDOVER PRESS
1899

WATER DEPARTMENT.

Town of Andover, Mass.

Commissioners.

JOHN H. FLINT, JAMES P. BUTTERFIELD,
FELIX G. HAYNES.

Superintendent.

JOHN E. SMITH.

Pumping Station.

GEORGE W. SPICKLER, *Engineer.*

GEORGE E. HUSSEY, *Clerk.*

REPORT OF WATER COMMISSIONERS.

The tenth annual report of the Board of Water Commissioners of the Town of Andover, also report of the Superintendent are respectfully submitted.

For ten years this town has had a water supply, sufficient time to demonstrate its good and bad features. That it has proved to be all that was anticipated of it must be admitted. Judging from the analysis of the water from year to year no better is furnished any city or town in this Commonwealth. The supply is abundant for all purposes even if the whole town was included in the system. No serious mishap has occurred that has in any way interfered with the supply or that has caused any heavy expenditure to remedy. The pumps are in good condition and of sufficient power for any emergency.

The Reservoir has required but a small outlay from time to time, and the street mains are apparently as good as when laid. The buildings at the pumping station were painted inside and out the past season and everything in and about the station is in good order.

The street line was extended on Central Street across the river at Abbott's bridge and connections made with several houses west of the railroad.

For better fire protection to the valuable property on Bartlet Street the 6 in. main was taken up and relaid with 10 in. and 8 in. from Punchard Avenue to Morton Street, this being supplied with three 6 in. feeders.

Two 6 in branches from this were laid in the school grounds and 2, 3 way hydrants were set near enough to the school buildings, for use in case of need. This will give 6 good fire streams as at the test, pressures of 45 lbs. from the reservoir and 60 lbs with the pump running, were developed.

Extensions were also made on Chestnut Street, Lewis Court, and Cuba Street. Eight hydrants have been set and two changed ; viz. 1 set on Lewis Court, one on Locke Street 1 Chestnut Street and 2 west of R. Road and two in the school grounds and 1 on the old R. Road. Those at Whiting's Corner and Memorial Hall are now 4 way independently nozzle instead of the old kind.

31 applications were received and 30 service pipes put in, making a total to the present time 847, number now in use 819, the number of meters now in use 571.

Received from Water rates, \$7792.40. The net cost of maintenance was \$3662.43. This amount is reduced from previous years by the Sewer Commissioners, allowing for services rendered by Supt. Smith, for use of house tools etc, in that department. There were sold \$5000 worth of bonds, making the full amount which the town is allowed to issue for the water system. About \$2000 is now left for construction purposes. Your Commissioners ask for \$750, for sinking fund, and \$4200 for maintenance.

Very Respectfully,

JOHN H. FLINT,	}	<i>Water</i>
JAMES P. BUTTERFIELD,		
FELIX G. HAYNES,		
		<i>Commissioners.</i>

SINKING FUND.

The Sinking Fund Commissioners present the following report:

Issue of 1890.

To redeem bonds Nos. 151 to 160 inclusive.	
To balance Jan. 11, 1898,	\$2637 02
Received from Town of Andover,	150 00
Received from interest from Andover Savings Bank,	46 02
Received from interest from Essex Savings Bank,	34 46
Received from interest from City Institution for Savings, of Lowell,	27 23
	<hr/> \$2894 73

Invested as follows :

Deposited in Andover Savings Bank,	\$1185 97
Deposited in Essex Savings Bank,	888 21
Deposited in Lowell Institution for Savings,	820 55
	<hr/> \$2894 73

Issue of 1892.

To redeem bonds Nos. 161 to 170 inclusive.	
To balance Jan. 11, 1898,	\$1238 91
Received from Town of Andover,	150 00
Received from interest from Broadway Savings Bank,	43 80
Received from interest Lowell Five Cent. Savings Bank,	10 76
	<hr/> \$1443 47

Invested as follows :

Deposited in Broadway Savings Bank,	\$1128 19
Invested in Lowell Five Cent Savings Bank,	315 28
	<hr/> \$1443 47

Issue of 1893.

To redeem bonds Nos. 171 to 180 inclusive.	
To balance Jan. 11, 1898,	\$894 76
Received from Town of Andover,	150 00
Received from interest from Andover Savings Bank,	31 40
Received from interest from Central Savings Bank,	9 26
	<hr/>
	\$1085 42
Invested as follows :	
Deposited in Andover Savings Bank,	\$846 60
Deposited in Central Savings Bank,	238 82
	<hr/>
	\$1085 42

Issue of 1895.

To redeem bonds Nos. 181 to 195 inclusive.	
To balance Jan. 11, 1898,	\$950 56
Received from Town of Andover,	225 00
Received from interest from Haverhill Savings Bank,	38 38
Received from interest from Lawrence Savings Bank	6 79
	<hr/>
	\$1220 73
Invested as follows :	
Deposited in Haverhill Savings Bank,	\$988 94
Deposited in Lawrence Savings Bank,	231 79
	<hr/>
	\$1220 73

Issue of 1898.

To redeem bonds Nos. 196 to 200 inclusive.	
Received from premium on bonds,	\$500 00
Received from interest from Mechanics Savings Bank,	5 00
	<hr/>
	\$505 00
Invested as follows :	
Deposited in Mechanics Savings Bank,	\$505 00

JOHN H. FLINT,	} <i>Sinking Fund</i>
J. P. BUTTERFIELD,	
FELIX G. HAYNES,	

Commissioners.

FINANCIAL STATEMENT. RECEIPTS.

BILLS.	Main- tenance	Service Pipe	Pipe Dis- tribution	Tools	Pumping Plant	Grand Total
L. F. Hitchcock, dynamite,	\$	\$	\$ 1 80	\$	\$	
Trustees Ballardvale Mills, pipe,			5 49			
Sewer Department, pipe and lumber,	386 81	136 21	884 38			
J. W. Barnard, repairing meter,	2 00					
Turning off water,	2 00					
Gutterson & Gould, scrap iron,	5 32			13 50		
Police Department, lanterns,					45 00	
The C. H. Egglee Co., small pump and labor,	52 93	840 23				
Various parties, service pipe and meters,						
Totals,	\$449 06	\$976 44	\$891 67	\$13 50	\$45 00	\$2375 67
Water Rates,						7792 40
						\$10168 07

EXPENDITURES.

APPROVED BILLS.		Mainte- nance	Service Pipe	Pipe Dis- tribution	Tools	Totals
John E. Smith, Superintendent,	.	\$942 57	\$ 92 42	\$165 01		\$1,200 00
Telephone, car fares, etc.,	.	1 74				1 74
Geo. W. Spickler, engineer,	.	720 00				720 00
Geo. E. Hu-sey, clerk and assistant superintendent,	.	405 00	59 00	8 00		472 00
Geo. Guthrie, foreman,	.	299 35	144 32	86 96	83	531 46
W. H. Higgins, board of horse,	.	188 25	35 75	26 50	78	251 28
Boston & Maine Railroad, freight,	.	119 52	6 88	22 63		149 03
Bangs & Horton, coal,	.	353 12				353 12
E. W. Bigelow, oil,	.	110 69				110 69
John R. Shaw, painting,	.	134 00				134 00
William Fairlie, labor,	.	40 27	59 07	111 32		210 66
Henry McLawlin, tools and hardware,	.	14 99		15 00	3 74	33 73
A. Palm, wood,	.	51 00				51 00
Andover Press, printing,	.	23 75				23 75
Arthur Bliss, box rent and postage,	.	38 00				38 00
Masury, Young & Co., oil,	.	33 48				33 48
Underhay Oil Co., oil,	.	58 74				58 74
John Guthrie, labor,	.	25 31	79 71	96 67		201 69
S. Peterson, labor,	.	10 50				10 50
Anderson & Bowman, blacksmith work,	.	25 10	13 71	11 95	40	51 20
Treat Hardware and Supply Co., hardware	.	13 59		2 86	7 80	24 25
James Ronan, labor,	.	22 93	12 50	67 94		103 37
J. A. O'Brien, labor,	.	14 58	14 50	81 27		110 35
M. H. H. Smith, clerical work,	.	68 00				68 00

J. A. Walker, coal,	.	.	24 68				24 68
A. M. Colby, painting wagon,	.	.	15 00				15 00
A. W. Chesterton, packing,	.	.	15 41				15 41
L. M. Crane, oil,	.	.	23 18				23 18
Gurterson & Gould, lead,	.	.	40 00			130 48	170 48
James J. Abbott, wood,	.	.	32 00				32 00
Merrimack Boiler Works, repairs on boiler,	.	.	83 75				83 75
Deane Steam Pump Co., pumping valves,	.	.	24 40				24 40
J. E. Whirling, repairs on clock,	.	.	2 00	94 75		4 00	6 00
National Meter Co.; meters and parts,	.	.	4 00				98 75
A. W. Caldwell, setting glass,	.	.	1 25				1 25
W. F. Ruter & Co., pipe fittings,	.	.	1 59	2 48		61 53	65 60
A. E. Martell, copy books,	.	.	5 00				5 00
Geo. A. Higgins, stationary,	.	.	10 14				10 14
A. Beauregard, repairs on wagons,	.	.	4 75				4 75
Chas. F. Mayer, repairs on harness,	.	.	8 70				8 70
Geo. Slute, labor,	.	.	1 05				1 05
John Green, labor,	.	.	1 50				1 50
Edison Manufacturing Co., pump diaphragm,	.	.	1 90				1 90
Daniel Johnson,	.	.	7 00	1 60		32 11	40 71
S. W. Fellows, wall paper,	.	.	7 74				7 74
Hardy & Cole, labor and lumber,	.	.	9 77			31 40	41 17
S. McDougall, repairs on wagons,	.	.	6 35				6 35
Frank Dane, labor,	.	.	7 16				7 16
Garlock Packing Co., packing,	.	.	4 68				4 68
Ludlow Valve Manufacturing Co., valves and hydrants,	.	.	5 00			306 73	311 73
Edward McCabe, boiler flue,	.	.	6 27				6 27
Thos. Leshe, labor,	.	.	2 94	13 42			16 36
Knowlton Packing Co., packing,	.	.	5 39				5 39
<i>Amounts carried forward,</i>			\$4077 08	\$630 11	\$1262 36	\$13 55	\$5,983 14

APPROVED BILLS.		Mainte- nance	Service Pipe	Pipe Dis- tribution	Tools	Totals
<i>Amounts brought forward,</i>		\$4077 08	\$630 11	\$1262 36	\$13 55	\$5,983 14
Thomas Manufacturing Co., asphaltum,	.	8 25				8 25
John Schofield, labor,	.	1 75				1 75
Herbert Wright, labor,	.	6 00				6 00
E. C. Pike, pipe fittings,	.	2 65	12 46	5 00		20 11
Louis A. Dane, telephone line,	.	8 80				8 80
Walworth Manufacturing Co., pipe fittings, etc.,	.	76		7 71	3 60	12 07
Edward S. Hardy, jobbing,	.	25				25
Smith & Manning, kerosene oil, etc.	.	55	1 20	3 67		5 42
American Express,	.	50	2 25			2 75
Frank E. Gleason, coal,	.	6 50		3 50		10 00
Harry Bourdelais, reporting break,	.	50	267 75			50
Neptune Meter Co., meters,	.		28			267 75
M. T. Walsh, fittings,	.		3 50			28
H. E. Barnjum, cutting oil,	.		151 41			3 50
Chadwick Lead Works, lead pipe,	.		3 60			151 41
Geo. H. Sampson, exploders,	.		99 52			3 60
National Tube Works, pipe,	.		1 26	27 54		99 52
Thos. Smith, labor,	.		1 26	20 25		28 80
James Pasho, labor,	.		1 26	21 51		21 51
William McDonald, labor,	.		1 26	32 96		34 22
Abraham Wildrick, labor,	.		2 05	53 76		55 81
Geo. W. Fraize,	.		1 26	55 27		56 53
John Madden, labor,	.		4 80	28 65		33 45
Union Meter Co., meter,	.		8 00			8 00
Michael Gill, labor,	.		1 26	64 69		65 95

Charles McCarthy, labor, .	.	.	.	1 60	24 89	26 49
Cornelius Tobin, labor, .	.	.	.	1 26	47 81	49 07
John Gill, labor, .	.	.	.	1 32	64 54	65 86
National Valve and Lining Co., valves and labor,	.	.	.	96 00		96 00
Sumner and Goodwin, fittings, .	.	.	.	128 08	13 33	141 41
Tuttle's Express, .	.	.	.	1 30		1 30
Boston Lead Manufacturing Co., lead,	.	.	.	7 74		7 74
John Daley, labor, .	.	.	.	1 60		1 60
John Craik, labor, .	.	.	.	10 31		10 31
H. Mueller Manufacturing Co., fittings,	.	.	.	10 76		10 76
Hugh Malcolm, labor, .	.	.	.	2 31		2 31
Lead Lined Iron Pipe Co., fittings,	.	.	.	17 47		17 47
Peter Duggan, labor, .	.	.	.	2 52		2 52
James McCallum, labor, .	.	.	.	1 60		1 60
David Guthrie, labor, .	.	.	.	1 60		1 60
Andrew Hurley, labor, .	.	.	.	1 75	1 75	3 50
City of Lawrence, special,	.	.	.		2 40	2 40
John Haggerty, labor, .	.	.	.		27 37	27 37
Geo. W. Chandler, teaming,	.	.	.		172 18	172 18
Donaldson Iron Co., pipe,	.	.	.		1877 60	1877 60
John Collins, labor, .	.	.	.		6 40	6 40
Edward McCabe, labor, .	.	.	.		1 60	1 60
Michael Cullen, labor, .	.	.	.		15 20	15 20
Edward Riley, labor, .	.	.	.		15 20	15 20
John Fraize, labor, .	.	.	.		25 69	25 69
William Caffrey, labor, .	.	.	.		42 58	42 58
James Clinton, .	.	.	.		9 78	9 78
Peter Coan, labor, .	.	.	.		16 00	16 00
Richards & Co., lead, .	.	.	.		41 17	41 17
<i>Amounts carried forward, .</i>	.	.	.	\$4113 59	\$3970 85	\$9,582 08

APPROVED BILLS.		Main- tenance	Service Pipe	Pipe Dis- tribution	Tools	Totals
<i>Amounts brought forward,</i>	.	\$4113 59	\$1480 49	\$3970 85	\$17 15	\$9582 08
Rensselaer Manufacturing Co., valves and hydrants,	.			154 30		154 30
Lawrence Gas Co., coke,	.			2 00		2 00
Builders Iron Foundry, specials,	.			53 17		53 17
Thos. Doyle, labor,	.			14 40		14 40
Frank Blood, labor,	.			3 02		3 02
Dr. C. E. Abbott, services,	.			15 00		15 00
Cornelius Sullivan, labor, #	.			2 22		2 22
Andover Electric Co., repairing telephone,	.	4 50				4 50
Totals,	.	\$4118 09	\$1480 49	\$4214 96	\$17 15	\$9830 69

Cost of Construction.

Office fixtures,	\$ 492 53
Reservoir,	11074 59
Buildings at Pumping Station,	9433 69
Coal shed,	806 97
Pipe distribution,	128070 65
Service pipe,	11989 25
Construction expenses,	6697 77
Suction pipe,	1309 46
Pumping plant,	26652 37
Grading land,	1739 12
Tools,	1377 49
Teams,	474 90
Work shop,	1259 62
Water and land damage,	3696 80
Telephone,	74 63
	<hr/>
	\$205149 84
	<hr/>

SUPERINTENDENT'S REPORT.

To the Board of Water Commissioners :

There have been laid during the past year 3438 feet of 6 inch and 508 feet of 8 inch pipe making the total length of new Mains 3940 feet.

9 new hydrants and 9 valves have been added to the system. The total number of public hydrants in use is 193. 497 feet of 6 inch pipe has been taken up and relaid with 485 feet of 10 inch and 12 feet of 8 inch pipe. Pipe has been laid as follows.

Chestnut Street from George Holt's to Mrs. May's, 775 feet of 6 inch pipe, 1 hydrant.

Central Street from T. Frank Pratt's to Cuba Street 496 feet of 8 inch pipe 1 valve.

Back road west from Railroad at Central Street 514 feet 6 inch pipe, 1 valve, 2 hydrants.

Cuba Street from John Henderson's to C. M. Cook's 150 feet of 6 inch pipe.

Lewis Court 196.6 feet of 6 inch pipe 1 hydrant.

Old railroad from Harding Street north 1262 feet 6 inch pipe 2 valves 1 hydrant. This line was laid for the Sewer Department, but is available for fire protection or house connections and will probably in the future prove valuable in connection with the public park. At the present time the only connections made with it are one hydrant and the inverted syphon of the sewer system. There is no water being used from it and probably will never be a source of revenue.

At the Punchard School building 270 feet of 6 inch pipe 1 valve and 1 three way independent nozzle hydrant.

At John Dove school building 261 feet of 6 inch pipe 1 valve 1 three way independent nozzle hydrant.

On Bartlet Street 485 feet of 10 inch pipe and 12 feet of 8 inch pipe were laid to replace a 6 inch pipe giving better fire protection to the school buildings.

On Main Street at J. E. Whiting's a four way independent nozzle hydrant has been set and at the square in front of Memorial Hall a matthews has been replaced by a four way independent nozzle hydrant.

A hydrant has also been set on Locke Street.

These changes and additions have improved the fire service in the business section of the Town and while they do not add anything to the earning capacity of the system are a good insurance.

31 applications for services were received during 1898 and 30 service pipes were laid. The total number of applications to date is 847, total number of services in use 819, total number of meters 571.

SCHEDULE OF SERVICE PIPE.

Laid during 1898.	Kind,	Cement Lined	Lead Lined.	Tarred.	Lead.	Cast-Iron.	Total.
	Sizes,	$\frac{3}{4}$, 1, & $1\frac{1}{2}$ in.	$\frac{3}{4}$, 1, $1\frac{1}{2}$ & 2 in.	2 & $2\frac{1}{2}$ Inches.	$\frac{3}{4}$ & 1 Inch.	4 Inch.	
	No. of Services, Owned by Town, Owned by Individ		30 775.4 1314.2				30 775.4 1314.2
	Total for 1898,		2089.6				2089.6
Previously Reported,	No. of Services, Length in feet,	642 47582.3	133 8643.4	5 643.0	6 817.0	3 738.2	789 58135.0
Total Jan. 11, 1899,	No. of Services, Length in feet,	642 47582.3	163 10733.0	5 643.0	6 817.0	3 738.2	819 60224.6

MONTHLY RECORD OF PUMPING SERVICE, 1898

Month.	Days.	Time.		Lift, including friction and suction.	LBS. COAL USED.			Gallons pumped.	DUTY		Average daily consumption.
					Pumping.	Banking Starting, Etc.	Total.		By coal used pumping.	By total coal used.	
		H	M	ft.							gallons.
January	22	111	45	330	19,300	7,400	26,700	7,562,150	107,705,847	77,887,317	243,940
February	20	107	55	330	18,350	6,700	25,050	7,328,097	109,821,617	80,448,171	261,717
March	22	117	50	330	18,750	4,800	23,550	8,009,618	117,474,403	93,530,576	258,375
April	21	107	10	330	16,800	4,200	21,000	7,385,221	120,889,037	97,112,300	246,174
May	23	136	25	330	21,700	4,600	26,300	9,306,335	117,937,422	97,309,584	300,204
June	21	121	22	330	20,750	4,200	24,950	8,448,501	111,968,093	93,119,757	281,167
July	24	137	45	330	27,100	5,000	32,100	9,867,630	100,132,783	84,535,776	317,988
August	22	138	40	330	26,600	4,600	31,200	9,816,437	101,485,725	86,523,086	316,982
September	23	157	25	330	26,750	4,700	31,450	10,891,337	111,967,427	95,234,613	363,046
October	22	163	50	330	30,600	4,600	35,200	11,424,399	102,670,252	89,224,708	368,259
November	22	173	10	330	32,350	4,800	37,150	12,276,852	104,362,729	90,878,303	409,228
December	24	154	00	330	30,100	7,050	37,150	10,971,198	100,235,198	81,213,444	353,909
Totals	266	1627 17			289,150	62,650	351,800	113,287,775	1,774,384	88,556,390	310,377

The system is in excellent shape. The improvements in the fire service on Bartlet Street is very marked, it is now possible to use 6 fire streams at the public school buildings, and hold a pressure on the Bartlet Street main of 60 lbs per square inch, where previous to the changes only two streams could be made efficient without the use of a fire engine. The liberal action of your Board during the past year in the matter of fire protection, is to be commended and will surely prove a benefit to the town.

The construction of the sewer system will naturally lead to a greater consumption of water, not only for flushing and uses incidental to the care of the system, but also from increased number of fixtures and more liberal use by consumers. It is probable that the increased income from private use will more than offset the extra expense caused by furnishing the Sewer Department with what water it will require.

Respectfully submitted,

JOHN E. SMITH.

TOWN OF ANDOVER

FIRST

ANNUAL REPORT

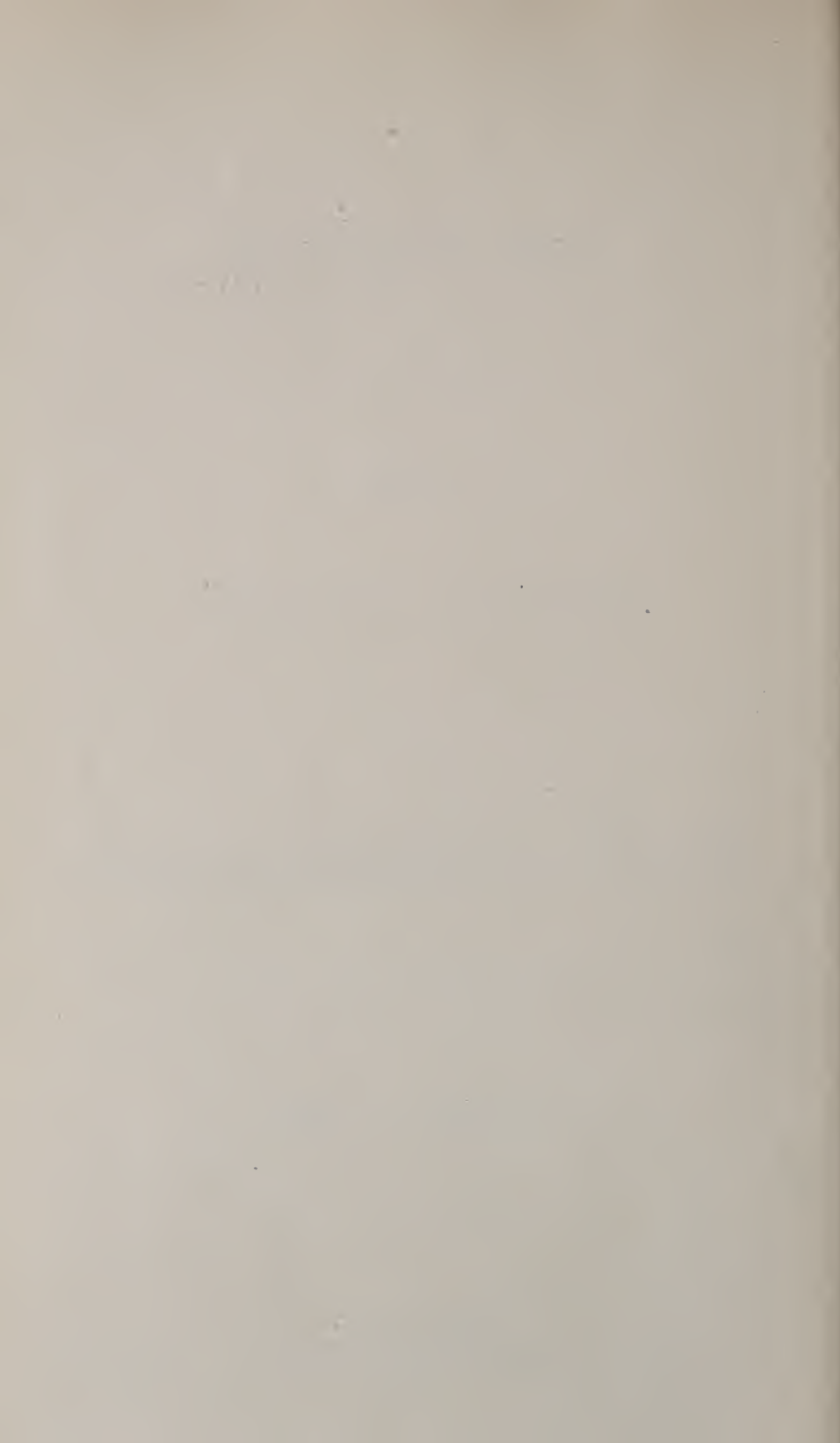
OF THE

SEWER COMMISSIONERS

FOR THE FINANCIAL YEAR ENDING

JANUARY 12, 1899

ANDOVER, MASS.
THE ANDOVER PRESS
1899



REPORT OF SEWER COMMISSIONERS.

To the Citizens of the Town of Andover :

Immediately after the annual town meeting of 1898, your Board of Sewer Commissioners took steps to carry out your instructions as given to them at that time and have during the past year used all reasonable means to hasten the construction of that portion of the sewer system which they deemed an immediate necessity. Unavoidable delays, arising from the necessity of complying with the wishes of the State Board of Health, and which are fully discussed in the Engineer's report which we herewith transmit, made it impossible to begin the work of construction until late in June and the early closing of the season gave only five months for the actual work of construction. Notwithstanding the shortness of the season the sewers as planned and Walnut Avenue, Maple Avenue and High street in addition have been completed. Enough filtration area has been prepared for present requirements. The changes made necessary by the action of the State Board of Health were not deemed radical enough to warrant the calling of a special town meeting to take action thereon. The changes in question were very carefully investigated with regard to their financial aspect both to the Town and to the abutters and found to show a saving to all parties interested. The expense of maintaining the system will remain about the same, as the extra expense due to the care of the filter beds will be offset by the interest account, cost of construction being so much lower. The abutters will derive more benefit from the changes than the tax payers, as the difference in

the cost of construction will materially lessen the amount of assessment to be levied. The financial statement herewith presented shows the cost of construction to date to be \$75700.33 leaving an unexpended balance of \$4299.67. Unpaid land damages, the setting of the pump on the low level section, settlement with the engineers and a few small bills will however take the whole of this balance and leave nothing for future work.

Our estimates have been well above the cost of construction with the single exception of the filtration area. The extra cost of this work is due partly to the fact that but four acres were estimated whereas six acres have been under course of construction. As the total consumption of water for the whole town including water for public uses is but a little over 320,000 gallons per day and the total leakage for the system completed but 32,000 gallons per day, we could take care of the sewage of the whole town on this area at the rate of 60,000 gallons per acre per day and six acres will probably be area enough to successfully treat the sewage which will be delivered for a number of years to come. In the construction of the sewers your commissioners directed that no reasonable expense be spared to insure against leakage and the result is certainly gratifying.

To insure tight work and ease of maintenance of the system it was decided that the house connections should be made by the town, charging the actual cost of the work plus a percentage for the use of tools, etc. This is in line with the methods adopted in most places having a separate system and which is working to the benefit of both the individual and the town where it has been in operation. By courtesy of the Water Commissioners this work has been in charge of the superintendent of the water works and has been carried on in connection with that department. Up to the close of the year 110 applications for house connections were received and 55 connections made. These 55 connections cover 61 buildings. All connections are laid to line and

grade and joints made in the same manner as in street sewers.

While this method of construction is perhaps slightly more expensive than the haphazard method of ordinary drain laying, it becomes possible to find and remove an obstruction without digging up the pipe. The assessment plans have not yet been received from the engineers, results correct within a small percentage have, however, been obtained and show on the system as constructed a total assessable frontage of 49612 feet which would be equal to an assessment of about \$1.21 per foot front. As the filtration area, syphon line, trunk sewers and greater part of the land damages come under the present construction, it is manifestly unjust to assess upon the present frontage if extensions are to be made in the near future, as the ratio of frontage to cost of construction will be greater and the assessment less if more street sewers are constructed. Your Commissioners believe it advisable before levying assessments to construct a section of sewer including Highland road, Salem street, Main street from Salem to Porter streets, Porter street; also to extend present system by constructing Summer street, Washington avenue, Elm street from Maple avenue to Washington avenue, Whittier street from Elm to Summer streets, and from Chestnut to Bartlett streets, Chestnut St. from Whittier St. to Mrs. May's. The estimated cost of these extensions is \$26,465 and the total assessable frontage 25310 feet. This construction would reduce the assessment to be made to about \$1.10 per foot front. The Central and Phillips streets section owing to the long line of non-assessable sewer to be built would of itself figure assessments on about the same basis and could therefore be constructed at any time when there is a demand for it. The Salem street section should certainly be constructed, as that section is a source of pollution to Rogers Brook. Washington avenue is very wet and in that section contamination of the ground is bound to occur however great care is exer-

cised. On Washington avenue the value of underdrainage alone will be greater than the cost of the improvement.

We would recommend the construction of sewers in the streets named and as short extensions will probably be called for in various places would recommend that bonds to the amount of \$30,000 additional be issued. For maintenance of the system we recommend an appropriation of \$1500.00. No appropriation will be required for sinking fund as the interest accumulations on the premium received from the sale of bonds should at the end of thirty years equal the amount of bonds then unpaid, and receipts from assessments will have extinguished all other bonds.

We refer you to the report of the Engineers for a description of the system and work completed.

Respectfully submitted,

WM. S. JENKINS,	}	<i>Sewer</i>
JOHN L. SMITH,		
JOHN E. SMITH,		

Commissioners.

FINANCIAL STATEMENT.

Common Sewers.

Portland Stoneware Co. Pipe,	\$4547 67
Mechanics Iron Foundry. Manhole Covers	690 19
S. H. Lovewell & Co. Gates,	590 60
M. J. Drummond, iron Pipe	3102 59
T. Donovan, labor	80
Bart. Kelleher, labor	3 65
J. Pasho, labor	2 93
J. Poland, labor	3 91
Frank Mc Cusker, labor	4 27
Thos. Doyle, labor,	4 27
George Fraize, labor,	9 51
A. Wildrick, labor,	6 00
John O'Brien, labor,	3 91
William Fairlie, labor,	3 43
William Caffrey, jr., labor,	11 25
John Gill, labor,	9 20
Daniel Johnson, labor,	10 80
Patrick McEvoy, labor,	9 37
Virley Stevenson, labor,	8 66
J. Welch, labor,	6 09
Thomas Joyce, labor,	10 44
Thomas Horan, labor,	4 67
James Cullen, labor,	1 73
Harry Doolittle, labor,	7 91
James Clinton, labor,	7 64
Michael Gill, labor,	2 13
John Reardon, labor,	80
Edward Tobin, labor,	80

Amount carried forward, \$9,065 22

<i>Amount carried forward,</i>	\$9065 22
J. Driscoll, labor,	80
Daniel Sullivan, labor,	80
L. M. Ham & Co., iron beams,	30 24
Hardy & Cole, cement and lumber	2452 84
Boston & Maine R. R., freights,	893 45
Builders Iron Foundry, special castings,	26 30
E. C. Pike, pipe,	22 54
Walworth Mfg. Co., special casting,	101 59
Ludlow Valve Co., valves,	71 48
Tuttles Express,	4 75
Wm. H. Welch & Co., pipe,	72 86
Treat Hardware, pipe,	76 08
Concord Foundry Co., cover,	8 75
Waldo Bros., pipe,	15 75
City of Lawrence, steam roller,	165 00
Randall Hurley, labor,	10 50
David Valentine, labor,	1 24
Chas. Morse, labor,	1 24
Jerry Cullinane, labor,	1 24
Samuel Levis, labor,	7 54
Andover Water Works, pipe and labor,	1106 34
Frank E. Dodge, mason work,	10 01
American Express Co.	15
The C. H. Eglee Co., Contract,	27,599 57
	<hr/> 41,746 28 <hr/>

Land Damages.

Curran & Joyce, land,	300 00
Isaac Farnham, land,	225 00
Andover National Bank, R. stamps,	5 00
Roger Sweeney, land,	105 00
Ellen Donovan, land,	50 00
Mary Driscoll, land,	80 00
<i>Amount carried forward,</i>	<hr/> \$765 00 <hr/>

<i>Amount brought forward,</i>	\$765 00
James Haggerty, land,	50 00
Timothy Howard, land,	142 00
Geo. H. Poor, trustee,	250 00
F. W. P. O'Nasch, land,	150 00
Jos. W. Smith, cleaning filter beds,	359 45
George Mander, land,	350 00
	<hr/> \$2066 45

Engineering Expenses.

McClintock & Woodfall, engineers,	\$5694 06
W. H. Higgins, teams,	18 75
Ira B. Hill, fares,	75
Smith & Manning, bags and twine,	25
Water Dept., team and labor,	204 00
	<hr/> \$5917 81

Administration.

Andover Press, books and printing,	\$77 00
Geo. E. Hussey, rubber stamp,	2 50
Story & Thorndike, legal advise,	60 00
Arthur Bliss, stamps,	3 00
Geo. A. Higgins, stationary, etc.	11 07
Edward N. Sampson, salary,	66 66
	<hr/> \$220 23

Tools.

Henry Mc Lawlin, tools,	\$146 44
Boston & Maine R. R., freight,	1 42
Perrin Seaman & Co., tools,	150 56
The C. H. Eglee Co., drills,	30 00
Treat Hardware & Supply Co., tools,	28 85
Benjamin Brown, rubber boots and mittens,	25 90
Anderson & Bowman, blacksmith work,	1 95
	<hr/> \$385 12

Office Fixtures.

H. P. Noyes, table and chairs,	\$28 40	
	<hr/>	\$28 40

Blow-off Beds.

A. Wildrick, labor,	\$ 33 60
John Leary, labor,	42 85
Thomas Doyle, labor,	36 62
Daniel Johnson, labor,	23 11
Michael Gill, labor,	4 53
Wilson Knipe, labor,	38 13
Patrick McAvoy, labor,	28 09
William Piddington, labor,	10 84
John Driscoll, labor,	44 27
J. Poland, labor,	42 14
Frank McCusker, labor,	44 53
James Pasho, labor,	41 51
Edward Tobin, labor,	46 15
Bart Kelleher, labor,	41 33
Albert Bancroft, stone work,	116 33
Geo. Mander, foreman,	122 72
John Bowler, labor,	24 36
Geo. W. Fraize, labor,	29 16
Edward Mayo, labor,	1 78
William Caffrey, jr., labor,	26 57
Owen Milliday, labor,	39 65
John Gill, labor,	20 31
Herbert Williams, labor,	36 89
Daniel Maroney, labor,	1 60
James Grieves, labor,	7 02
James O'Brien, labor,	16 46
James Reagan, labor,	8 62
Dennis Lane, labor,	8 53
Michael O'Brien, labor,	8 53
Joseph Oliver, labor,	7 20

<i>Amount carried forward,</i>	<hr/>	\$953 43
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<i>Amount brought forward,</i>	\$953 43
Martin Duggan, labor,	8 53
Frank Thayer, labor,	11 86
John Moynehan, labor,	24 09
Timothy Donovan, labor,	31 29
D. McGrady, labor,	1 60
Arthur Lusko, labor,	1 60
W. Conway, labor,	3 20
John Kennelly, labor,	68 00
Samuel Riley, labor,	8 00
Herbert Bailey, labor,	61 60
John O'Brien, labor,	6 04
William Fairlie, labor,	6 08
John Fraize, labor,	6 95
Virley Stevenson, labor,	22 49
John Welch, labor,	18 57
Thos. Joyce, labor,	22 40
Thos. Horan, labor,	13 15
J. Cullen, labor,	6 22
Harry Doolittle, labor,	10 35
James Clinton, labor,	7 96
Cornelius Tobin, labor,	36 89
John Reardon, labor,	28 10
Daniel Sullivan, labor,	32 89
John Sweeney, teams,	54 20
William Ronan, teams,	10 83
Fred Stack, teams,	15 82
Geo. Buchan, labor,	13 43
John O. Collins, teams,	13 50
Michael Stack, teams,	29 17
William Evans, labor,	13 96
John Pitts, labor,	14 40
William Matthews, labor,	14 49
John Maroney, labor,	60 89
Smith & Manning, cheese cloth and supplies,	7 79
Locke & Jones, ledge stone,	30 00
	<hr/> \$1669 78 <hr/>

Underdrains.

Richard Hill, labor,	\$ 91 91
Portland Stone Ware Co., pipe,	1091 62
Harry Leith, labor,	45 33
Jerry Leary, teaming,	437 25
John Guthrie, labor,	45 77
James Ronan, labor,	14 13
Michael Stack, teaming,	51 00
Frank E. Gleason, teaming,	25 50
Cornelius Sullivan, labor,	105 79
Thos. Leslie, labor,	11 38
Wm. Fairlie, labor,	32 00
John Craik, labor,	81 07
Ammon Richardson, team,	4 50
The C. H. Eglee Co., contract,	5739 95
C. M. Cook, gravel,	29 90
A. Ward, team,	8 50
J. Henderson, gravel,	9 10
Highway Dept., crushed stone,	420 00
	<hr/> \$8244 70

Filter Beds.

George Mander, foreman and team,	\$416 49
Frank McCusker, labor,	105 52
James Poland, labor,	139 48
James Pasho, labor,	138 23
John Leary, labor,	129 16
Bart Kelliher, labor,	139 91
Thomas Doyle, labor,	128 62
George Fraize, labor,	61 42
Abraham Wildrick, labor,	149 48
Wilson Knipe, labor,	166 69
Cornelius Tobin, labor,	72 27
John Pitts, labor,	31 38
<i>Amount carried forward,</i>	<hr/> \$1678 65

<i>Amount brought forward,</i>	\$1678 65
William Matthews,	79 91
John Fraize, labor,	42 31
Town Farm, team,	304 82
James Grieve, labor,	23 11
Alex Hodge, labor,	1 07
James Deveau, labor,	80 80
John E. Murphy, labor,	34 05
James Mellonson, labor,	63 65
James Valentine, labor,	4 80
Michael Laughlin, labor,	4 80
Michael McLaughlin, labor,	4 80
Lewis Davis, labor,	19 20
Martin Walker, team,	6 20
John Cosgrove, labor,	8 00
Lewis Balch, labor,	9 60
Patrick Casey, labor,	20 09
Austin Hitchcock, labor,	1 60
Frank Fenlason, labor,	17 34
Joseph Maroney, labor,	17 78
John Driscoll, labor,	7 29
Daniel Donovan, labor,	77 11
Michael Heffernan, labor,	123 65
Daniel Kelley, labor,	122 93
John Conolly, team,	224 59
William Ronan, team,	357 57
Thomas Martin, labor,	112 27
John Frame, labor,	40 89
Wm. McKenzie, labor,	113 78
Hugh Malcolm, labor,	21 51
Charles Creedon, labor,	31 29
John Davis, labor,	47 29
Thomas Hennebry, labor,	66 17
Michael Hennesey, labor,	42 44

<i>Amount carried forward,</i>	\$3811 36
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<i>Amount brought forward,</i>	\$3811 36
Joseph Oliver, labor,	55 43
Joseph Olroyd, labor,	12 19
Fred W. Lester, labor,	43 69
Frank Thayer, labor,	23 50
John Scanlon, labor,	7 64
James H. Reagan, labor,	13 51
James Reagan, labor,	12 59
John Currie, labor,	2 49
Michael Mahoney, labor,	12 80
David Spear, labor,	89
Michael Hartnett, labor,	6 22
John Reagan, labor,	3 91
Richard York, labor,	14 22
James Poland, labor,	8 71
James O'Brien, labor,	12 80
Fred Gould, teams,	742 11
John O. Collins, teams,	210 02
Michael Stack, teams,	196 35
Hardy & Cole, cement and lumber,	291 56
Portland Stoneware Co., pipe,	584 86
Smith & Manning, cheese cloth and supplies,	69 23
S. K. Lovewell & Co., Gates,	268 00
William Caffrey, labor,	16 80
Fred Watson, labor,	20 62
Patrick Mack, labor,	19 47
Daniel Sullivan, labor,	21 34
Dennis McCarty, labor,	12 89
Joseph Dupre, labor,	7 56
Jacob Whitehouse, labor,	8 84
John H. Conolly, labor,	1 60
Patrick Lynch, labor,	14 15
James H. Carter, labor,	21 16
William Connors, labor,	13 42
<i>Amount carried forward,</i>	\$6561 93

<i>Amount brought forward,</i>	\$6561 93
John Crowley, labor,	106 05
John Mander, labor,	37 88
George A. Perkins, labor,	26 49
Peter Carter, labor,	31 30
Patrick Barrett, labor,	13 15
Patrick Conolly, labor,	45 78
William Lynch, labor,	36 09
James Abercrombie, labor,	45 61
Joseph McCarty, labor,	47 55
James McGlynn, labor,	46 94
James Smith, labor,	51 03
Thomas Dudley, labor,	49 07
Patrick Hartnett, labor,	45 87
Leon Germain, labor,	53 87
John McCollum, labor,	5 69
David Valentine, labor,	50 94
William Steele, labor,	50 94
Samuel Smith, labor,	44 18
James Ronan, labor,	32 89
John Madden, labor,	77 51
Edward Tobin, labor,	143 43
Herbert Williams, labor,	135 39
John Driscoll, labor,	37 87
Owen Miliday, labor,	138 35
John Reardon, labor,	42 27
Timothy Donovan, labor,	137 52
John Moynihan, labor,	94 94
Michael Duggan,	137 02
Michael O'Brien, labor,	101 60
Dennis Lane, labor,	103 74
Thomas Lynch, labor,	70 40
William Kennedy, labor,	134 31
Michael Welch, labor,	67 82

<i>Amount carried forward,</i>	\$8805 42
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<i>Amount brought forward,</i>	\$8805 42
John Sweeney, teams,	208 91
William Caffrey, Jr., labor,	127 12
John Gill, labor,	105 25
Daniel Johnson, labor,	76 35
Patrick McAvoy, labor,	93 31
Virley Stevenson,	136 98
John Maroney, labor,	114 40
Thos. Joyce, labor,	135 21
Thos. Horan,	110 31
Harry Doolittle, labor,	41 25
James Clinton, labor,	119 84
Fred Stark, team,	216 24
Michael Gill, team,	200 94
Harry Dyer, labor,	82 05
John Foley, labor,	53 33
William Thomas, labor,	39 82
Arthur Curran, labor,	52 62
William Mahoney, labor,	40 00
Arthur Slane, labor,	47 74
Frank Valentine, labor,	61 25
Thomas Early, labor,	58 67
David Miller, labor,	57 87
Martin Duggan, labor,	51 90
Patrick Sullivan, labor,	53 16
John O'Connell, labor,	50 67
John L. Smith, labor,	52 09
James Sullivan, labor,	52 80
John McLaughlin, labor,	59 03
Jesse Mellonson, labor,	51 12
David Guthrie, labor,	51 11
David O'Connell, labor,	10 40
Pat Mooney, labor,	60 27
Michael Winters, labor,	51 46

Amount carried forward, \$11528 89

<i>Amonnt brought forward,</i>	\$11528 89
John Manion, labor,	47 38
William Leary, labor,	46 67
John Whalen, labor,	111 52
James Manly, team,	64 41
Joseph Bateman, team,	172 54
George Averill, team,	250 46
Llewellyn Murch, team,	46 30
Herbert Bailey, labor,	58 40
Jerry Ryan, labor,	22 40
John Elliot, labor,	1 34
Daniel Hayes, labor,	4 80
Joseph Lynch, labor,	62 49
William Fairlie, labor,	10 67
John Daley, labor,	15 65
John Welsh, labor,	44 28
Patrick Hughes, labor,	39 74
Albert Bancroft, foreman,	132 41
John Kennelly, labor,	87 56
Thomas Harriman, blacksmith work,	26 40
Michael Williams, labor,	85 07
James Martin, labor,	20 81
John Murnane, labor,	85 07
Henry Wennis, labor,	38 76
Thos. F. Burns, labor,	88 89
Patrick Jennings, labor,	95 65
John H. Connelly, labor,	31 29
Martin Delaney, labor,	28 09
James Donahue, labor,	80
George May, labor,	97 43
Charles Hurley, labor,	97 51
John Buckley, labor,	34 54
Daniel Fitz, labor,	41 60
Henry McLawlin, hardware,	9 00
<i>Amount carried forward,</i>	<hr/> \$13528 82

<i>Amount brought forward,</i>	\$13528 82
F. E. Dodge, mason work,	30 14
Boston & Maine R. R., freight,	7 42
John McCarty, mason work,	8 75
Treat Hardware Co., hardware,	1 46
Mechanics' Iron Foundry, frames and covers,	166 27
Concord Iron Foundry, frames and covers,	8 75
Perrin Seamens & Co., chain,	9 15
A. Bryant & Sons. blacksmith work,	1 75
J. N. Miller, labor,	3 02
Joshua Bailey, labor,	4 09
David O'Connell, labor,	29 69
Arthur Pray, labor,	27 38
John McCallum, labor,	14 49
James McCallion, labor,	33 25
John J. Lynch, labor,	19 73
	<hr/>
	\$13894 16
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Pump House.

The Treat Hardware & Supply Co., color,	\$ 20 12
C. H. Eglee Co., contract,	476 03
	<hr/>
	\$496 15
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Settling Tank.

Boston & Maine R. R., freight,	\$ 5 85
Pacific Flush Tank Co., syphon,	60 00
Hardy & Cole. cement,	225 00
The C. H. Eglee Co., contract,	740 40
	<hr/>
	\$1031 25
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Summary of Cost of Construction.

Filter Beds,	\$13894 16
Common Sewers,	41746 28
Blow Off Bed,	1669 78
Underdrains,	8244 70
Tools,	385 12
Settling Tank,	1031 25
Pump House,	496 15
Land Damages,	2066 45
Engineering Expenses,	5917 81
Administration,	220 23
Office Fixtures,	28 40
	—————\$75700 33

HOUSE CONNECTIONS.

Thomas Leslie, labor,	\$ 70 00
Con. Sullivan, labor,	60 79
Wm. Fairlie, labor,	61 73
James Ronan, labor,	63 10
Geo. Guthrie, labor,	41 88
John Guthrie, labor,	64 35
John Craik, labor,	54 05
Jas. McCallum, labor,	39 47
Peter Duggan, labor,	54 34
Jas. Currie, labor,	8 71
David Lacourse, labor,	1 60
Livi Parks, labor,	46 66
Boston & Maine R. R., freight,	23 22
Geo. H. Sampson & Co., dynamite,	15 19
Henry McShane Mfg. Co., soil pipe,	353 05
The C. H. Eglee Co., labor,	754 31
Henry McLawlin, hardware and supplies,	34 04
Portland Stone Ware Co., pipe,	257 10
Hugh Malcolm, labor,	24 18
Wm. Wakely, labor,	18 13
John O'Brien, labor,	10 22
John Lynch, labor,	6 57
Terry Carroll, labor,	10 50
John McDonnough, labor,	15 56
Frank Callahan, labor,	9 77
Hugh Cunningham, labor,	3 37
Wm. Lynch, labor,	1 77
Wm. Ronan, cleaning cesspool,	2 25
Albert Dunbar, labor,	21 00

Amount carried forward

\$2126 91

<i>Amount brought forward,</i>	\$2126 91
Frank Magnett, labor,	8 00
John P. Graham, labor,	6 40
E. N. Sampson, salary,	53 33
Jerry O'Leary, team,	24 00
Geo. L. Gage, cement,	25 00
W. H. Welch & Co., pipe,	40 21
Broad Gauge Iron Work, cistern covers,	14 08
Hardy & Cole, cement,	72 22
Mechanics' Iron Foundry, covers,	13 08
Anderson & Bowman, blacksmith work,	11 35
Sam'l Livis, labor,	3 20
Hugh Connors, labor,	13 15
Frank McCusker, labor,	4 60
Abraham Wildrick, labor,	15 55
Martin Duggan, labor,	10 50
Michael Gill, labor,	1 75
David Guthrie, labor,	4 44
John O'Connell, labor,	1 75
Wilson Knipe, labor,	8 36
John Scofield, labor,	4 44
A. Slade, labor,	2 84
Andover Water Works, lead and team,	97 06
Smith & Manning, cheese cloth,	23 89
John Leary, labor,	3 20
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	\$2589 31
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ENGINEERS' REPORT.

BOSTON, JAN. 25, 1899.

TO THE BOARD OF SEWER COMMISSIONERS,

Andover, Mass.

Gentlemen: — We submit the following report on sewers for the year 1898 including a brief summary of events.

Jan. 8, 1893: Letter from Sewer Commissioners to State Board of Health asking if crude sewage could be discharged into the Shawsheen River

July 7, 1893; Reply of the State Board of Health suggesting a filtering area or a discharge into the Merrimack River.

Jan. 22, 1894: Report on a system of sewerage by McClintock & Woodfall, Engineers, recommending a discharge into the Merrimack River.

Feb. 8, 1894: Letter from Sewer Commissioners to State Board of Health containing outline of system reported by McClintock & Woodfall.

March 2, 1894: Reply by State Board of Health suggesting the Merrimack River as the best point to discharge the sewage.

May 14, 1895: An Act to Authorize the Town of Andover to Establish a System of Sewerage including an outlet into the Merrimack River, on plans to be approved by the State Board of Health and with a clause protecting North Andover.

March 21, 1898 : Application of Sewer Commissioners to the State Board of Health for their approval of the plans for a System of Sewerage with an outlet into the Merrimack River and a temporary outlet into the Shawsheen River.

May 7, 1898 : Reply of the State Board of Health advising against the Merrimack River outlet and disapproving of the temporary outlet into the Shawsheen River.

May 20, 1898 : Application of the Sewer Commissioners asking the State Board of Health to approve the plans for a System of Sewerage with an outlet onto filter beds and for the right to take land for sewage treatment.

June 8, 1898 : Approval by the State Board of Health.

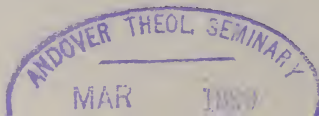
In 1898, the town having appropriated \$80,000 for sewers, the Sewer Commissioners called for proposals immediately on receiving the approval of the system by the State Board of Health.

The following table shows the contracts made by the Sewer Commissioners.

Table Showing Contracts.

CONTRACTOR.	NATURE OF BID.	BIDS REC'D.	CONTRACT SIGNED.
Portland Stone Ware Co.	Furnish vitrified pipe	June 3	June 21, 1898
The C. H. Eglee Co.	Build sewers	June 21	June 22, 1898
M. J. Drummond	Furnish iron pipe	June 25	July 8, 1898
Henry R. Worthington	Furnish pump	Nov. 21	Nov. 21, 1898
Hardy and Cole	Furnish lime and cement	June 18	Not signed

Gravel was furnished by town labor.



Other minor materials were purchased from different parties.

Work on filter beds was started about the middle of June, by town labor under a competent foreman. and continued as long as the season would allow. Sufficient land was prepared for treating the small quantity of sewage which would be discharged during the winter and as soon as the season opens the filter beds will be finished. The C. H. Eglee Co., to whom the contract for building the sewers was awarded, started work on June 30 and approximately finished in the latter part of November.

The following tables show the size, length and location of sewers and sub-drains built in 1898.

Table Showing Sewers in High Level System.

STREETS.	15 in.				10 in.		8 in.		6 in.		TOTAL.	REMARKS.
Abbott,	310	.	310	
Bartlett,	743	1826	560	.	.	.	3129	
Central,	591	339	.	120	.	1050	
Chestnut,	703	.	.	1169	.	1872	
Elm Square,	176.5	.	.	.	176.5	
Elm Street,	634	.	280	.	914	
Essex,	229.3	.	120	.	.	.	349.3	
Florence,	650	.	.	.	.	650.0	
High,	750	.	1261	.	2011.0	†This sewer follows the old R. R. bed from Carmel Woods to Main St.; thence Main to Pearson St., old R. R. bed to Smith & Manning's store and drive- way to Central Street.
‡Intercepting Sewer,	1331	2308.5	230	.	323	.	3869.5	
Locke,	300	.	.	.	623	
Main (So. of Elm Sq.)	163	1264	2159	.	.	.	4306	
Maple,	1416	.	1416	
Morton,	931	.	1471	.	2402	
Park,	294	509	.	.	.	1289	
Puncheon,	486	.	229.5	.	250	.	479.5	
Salem,	400	.	.	.	400	
School,	1113	.	1030	.	2143	
Summer,	500	.	500	
Walnut,	394	.	.	.	394	
Whittier,	796	.	.	.	796	
Totals,	1494.0	5030.8	5014.0	9411.0	8130.0	.	29079.8	5.51 miles.

Table Showing Sewers in Low Level System.

STREETS.	15 in.	12 in.	10 in.	8 in.	6 in.	TOTAL.	REMARKS.
Brook,	.	.	.	.	720.0	720	
Essex,	.	.	.	.	852.5	852.5	
Intake at Pump House,	.	.	.	.		99.0	Main St. to pump house
Main (No. of R. R.)	99					1138	
Main (Railroad St., to Int. Sewer,)		690		448		765	
Overflow (At Pump House,)	41.0			192	573		41.0 Pump House to River.
Pearson,	.	.	.	59	802	861.0	
Railroad,	.	.	.	1720		1720	
Totals,	.	140	690	2419.0	2947.5	6196.5	1.17 miles.
Inverted Siphon Line — 12 in. Iron Pipe		.	.	.	.	4971 ft.	.94 miles.
Force Main — 6 in. “		“	.	.	.	1597 ft.	.30 miles.

Total length including high and low level, inverted siphon and force main 7.92 miles.

Table Showing Underdrains.

STREETS.	8 in.	6 in.	5 in.	4 in.	TOTAL.	REMARKS.
Bartlett,	743	1829		563	3135.0	
Brook,				720	720	
Chestnut,		707			707	
Central,	424				424	314 ft. 8 in. in separate trench.
Elm Square,		176.5			176.5	
Elm Street,		149	485		634.0	
Essex, .	68			733	801	100 ft. 4 in. in separate trench.
Florence,		650			650	
High, .		350		1561	1911	
Intercepting,		1900.5		460.5	2361	50 ft. 6 in. in separate trench.
Locke,				229	229	
Main, .	440	1535	345	705	3025	The lengths of sub-drains, given above, as in separate trenches, are included in the body of the table.
Maple,				1416	1416	
Morton,		640		1455	2095	
Park, .	486	803			1289	
Pearson,				59	59	
Punchard,				475	475	
Railroad,				795	795	
School,		579	379	653	1611	
Sumner,				500	500	
Walnut,			344		344	
Whittier,			333	461	794	
Totals,	2161	9319	1886	10785.5	24151.5	4.57 miles.

A general description of the changes in the original system, with an outlet into the Merrimac River, made necessary by an outlet onto filter bed is as follows :

From a point on Central Street near Essex Street a 10 inch sewer is built through private land to Essex street, thence a 12 inch sewer through private land and Main Street, following in general the line of the old railroad location to High Street, thence a 15 inch sewer through High Street to a point near Pray's Road, thence a 12 inch iron inverted siphon through High Street, public and private land, to a point in Andover near the junction of the Shawsheen River and the boundary line between Andover and Lawrence. At this point the sewage is collected in a settling tank and through an automatic flush tank discharged onto the filter beds.

Twenty-two beds have been partly graded containing about four and two-tenths acres actual filtering area exclusive of banks and about six acres including banks.

About one-half acre of filter beds has been prepared at the blow off; at the low point of the inverted siphon.

The sewage that cannot be discharged by gravity into the intercepting sewer is collected at the pumping station on Main Street near the stone bridge from which point it is pumped through a 6 inch iron pipe into the intercepting sewer at the junction of High and Harding Streets.

No especial difficulties have been met with in the prosecution of the work. In parts of the town, where ground water was found, sub-drains were laid under the sewers. The sub-drains were of great assistance while building the sewers and made it possible to make tight joints. As a result of the sub-drains and a special joint the leakage of ground water into the sewers is comparatively unimportant, amounting to only 5900 gals. per mile per twenty-four hours, or at the rate of about one drop per joint every other second. On the basis of one drop per second per joint we have the following results: Joints every three feet give about 8800 gal. per mile per twenty-four hours. (Joints every two feet give

about 13,200 gals. per mile per twenty-four hours). Great care should be taken in all future extensions as well as with house connections to see that each joint is properly made and three feet lengths of pipe should be used when possible.

Joints were made with Rosendale cement mixed one to one and were made as follows: A strip of cloth wide enough to thoroughly cover the joint and long enough to be passed under and around the pipe and lap three to four inches was placed partly under the bell of the pipe last laid. Cement was then placed in the bottom of the bell and cloth. Two small wooden blocks to centre the next pipe to be laid, was then bedded in the cement. The pipe was then laid and the joint filled with cement by means of rubber mittens and a small rammer. Cement was then put on the joint so as to entirely cover the end of the bell. The cloth was then fastened around the pipe so that the cement was held firmly in place while setting.

As all the ground water, that enters the sewers, has to be treated and an increase in the leakage means an increase in the filtering area the importance of tight sewers is readily seen.

Considering the unavoidable delays during the early part of the year, the town is to be congratulated on the amount of work finished.

As two methods for disposal of the sewage have been discussed, it may be of interest to give a brief account of how and why the filter bed scheme was finally adopted.

The State Board of Health in their communication of July 7, 1893 to the Sewer Commissioners, suggested that "provision should be made for carrying as much of the sewage of the town as can be conveyed by gravity, either to suitable porous land, where it can be purified by filtration before being discharged into the Shawsheen River, or to the Merrimac River."

The report of McClintock & Woodfall submitted in January 1894, fully discussed these two methods suggested by the State Board of Health and submitted estimates of their comparative cost.

It was further suggested in this report that a temporary outlet into the Shawsheen River might be permissible for a few years, or until the town should decide whether to build to the Merrimac River, or to build filter beds and thus treat the sewage.

The engineers' report and plans were submitted to the State Board of Health and on March 2, 1894, they replied as follows, viz:—

“The Board has not sufficiently investigated the plans submitted to enable it to advise as to the best method for the permanent disposal of the sewage of the town, although, judging from the report of your engineers, it seems probable that it will be best to discharge the sewage into the Merrimac River.” Further on, in the same communication, they say that an outlet into the Shawsheen River is not a suitable one.

The town meeting of March 1894 having failed to make an appropriation for sewers, any further effort on the part of the Sewer Commissioners, at that time, was unnecessary and the question was allowed to stand with the State Board of Health's disapproval of the Shawsheen River outlet and uncertainty as to their final judgment on the Merrimac River outlet.

The Acts of 1895, Chapter 386, allow the town of Andover to lay out and construct a system of sewerage with an outlet into the Merrimac River, provided the proposed system be approved by the State Board of Health.

Between 1894 and 1898 more or less study was made of the sewerage problem, more particularly as to the final disposal of the sewage.

Section 15 of Chapter 386 of the Acts of 1895 fully protected the town of North Andover and made it possible for

the State Board of Health at any time, after certain preliminary formalities, to compel the town of Andover to build filter beds and treat its sewage before discharging it into the Merrimac River.

This action was possible notwithstanding the fact that the City of Lawrence and various other large cities were discharging all their sewage in a crude state into the river above the proposed outlet of the Andover system.

The amendment of this Section by Chapter 139 of the Acts of 1897 made it necessary to show that an existing nuisance "must be caused by the sewage of the town of Andover." The presence of the usual unsoluble articles, at and near the sewer outlet, would make it an easy matter to prove that the sewage of the town of Andover was there and it is fair to surmise that in a very few years action would be brought against the town, under this Act, which would necessitate the building of filter beds.

The cost of such filter beds would be as great at one time as another, and if built in connection with a long and costly outlet into the Merrimac river, would increase the outlay on the part of the town, by the cost of the outlet sewer between the filter beds and the Merrimac river, as this outfall sewer would not be built if the filter beds were built at first.

Increased information as to the filtering properties of different materials, and a further study of the ground, developed the possibility of securing a sufficient area of available land, situated at a height to permit a discharge by gravitation for the greater part of the village sewage. This fact was taken advantage of and a high and low level system designed, by means of which the greater part of the sewage flows directly to the filter beds; and a small part of it is to be pumped.

The State Board of Health, in their letter of May 7, 1898, advised against the Merrimac river outlet.

May 20, 1898, the Sewer Commissioners filed a new application and plans with the State Board of Health for their approval. These plans were approved June 8, 1898.

Respectfully submitted,

McCLINTOCK AND WOODFALL.

